Technical Information

Subject: How to make easier servicing

We are pleased to inform you how to make easier servicing of NV-G10/G7.

1. How to make easier servicing of a packed circuit

In the case of checking for such a packed circuit as Luminance and Chrominance Pack, Audio Pack, TV Demodulator Pack and so on, you may install them on the other side of the circuit board; the foil side.
At that time, remove the packed circuit board carefully not to damage anything and reinstall on the foil side keeping the relation of each connection correctly.

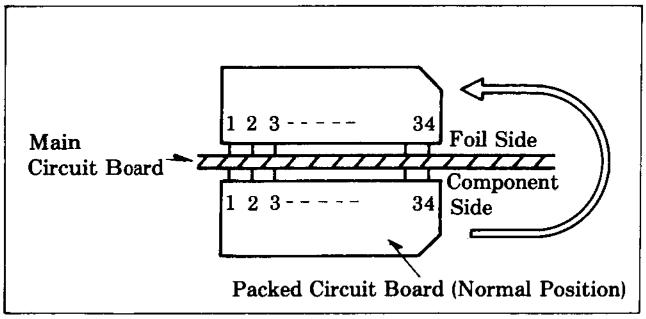

1 2 3 - - - - - 34
Main Circuit Board
Foil Side
Component Side
1 2 3 - - - - - 34
Packed Circuit Board (Normal Position)

Fig. 1

2. How to remove the Main Circuit Board

In the case of checking for the servo circuit, you can remove the main circuit board from its frame.
At that time unlock the 2 hinges and lift up paying attention not to touch any other portion.

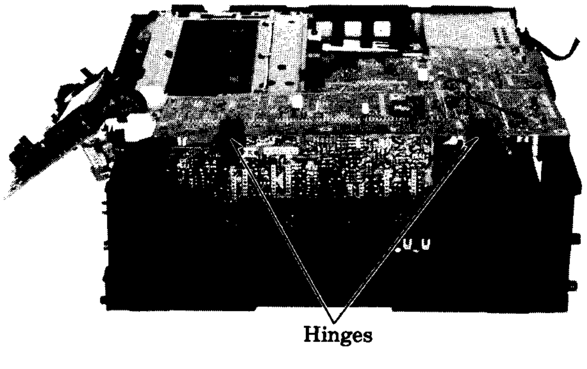


Fig. 2

3. How to remove the FIP Holder

In the case of removal of the FIP Holder (the display tube unit), it might be hard to take out from the Timer & CH Select C.B.A. At that time cut the 2 projections out from the FIP Holder by a nipper or something.
Then remove it carefully.

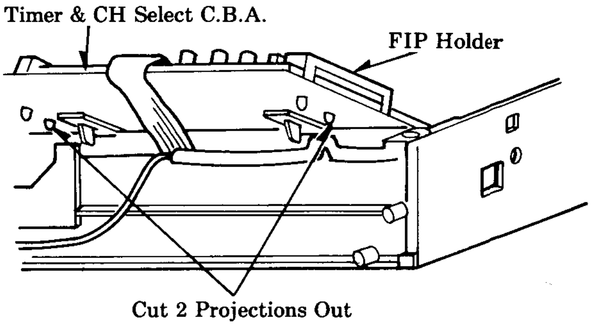

Timer & CH Select C.B.A.
FIP Holder
Cut 2 Projections Out

Fig. 3

CONTENTS

SECTION 1

GENERAL DESCRIPTION 1-1
1-1. FEATURES 1-1
1-2. CONTROLS AND COMPONENTS 1-1

SECTION 2

ADJUSTMENT PROCEDURES 2-1
2-1. MECHANICAL ADJUSTMENT PROCEDURES 2-1
2-1-1. CONFIRMATION OF PRESSING FORCE OF PRESSURE ROLLER 2-1
2-1-2. CONFIRMATION OF BRAKE TORQUE 2-1
2-1-3. CONFIRMATION OF TAKE-UP TORQUE 2-1
2-1-4. ADJUSTMENT OF REVIEW TORQUE 2-1
2-1-5. ADJUSTMENT OF THRUST GAP 2-1
2-2. DISASSEMBLY METHOD 2-1
2-2-1. DISASSEMBLY FLOWCHART 2-1
2-2-2. DETAIL OF DISASSEMBLY METHOD 2-2
2-3. REPLACEMENT OF UPPER CYLINDER UNIT 2-3
2-4. REPLACEMENT OF AC CORD 2-4
2-5. ELECTRICAL ADJUSTMENT PROCEDURES 2-4
2-5-1. TEST EQUIPMENTS 2-4
2-5-2. HOW TO READ THE ADJUSTMENT PROCEDURES 2-4

SERVO SECTION

2-5-3. PG SHIFTER ADJUSTMENT 2-5
2-5-4. TRACKING FIX ADJUSTMENT 2-5
2-5-5 SLOW TRACKING FIX ADJUSTMENT 2-5
2-5-6 ARTIFICIAL V-SYNC ADJUSTMENT 2-5
LUMINANCE, CHROMINANCE & HEAD AMP SECTION 2-6
2-5-7. HQ AMP GAIN ADJUSTMENT 2-6
2-5-8. LUMINANCE RECORDING CURRENT ADJUSTMENT 2-6
2-5-9. PLAYBACK CHROMA CYAN LEVEL ADJUSTMENT 2-6
2-5-10. HEAD AMP FREQUENCY RESPONSE ADJUSTMENT 2-7

AUDIO SECTION

2-5-11. AUDIO BIAS CURRENT ADJUSTMENT 2-7
2-5-12. AUDIO PLAYBACK LEVEL ADJUSTMENT 2-7

TIMER, SYSTEM CONTROL SECTION

2-5-13. TIMER RESET ADJUSTMENT 2-7
2-5-14. INFRARED TUNING FREQUENCY ADJUSTMENT 2-8

TV DEMODULATOR SECTION

2-5-15. TEST EQUIPMENTS 2-8
2-5-16. SELECTIVE COIL ADJUSTMENT 2-8
2-5-17. VIF SWEEP ADJUSTMENT 2-9
2-5-18. SIF SWEEP ADJUSTMENT 2-10
2-5-19. AFC ADJUSTMENT 2-11
2-5-20. VIDEO FREQUENCY RESPONSE ADJUSTMENT 2-11
2-5-21. AUDIO LEVEL ADJUSTMENT 2-11
2-5-22. TIMER MUTING FREQUENCY ADJUST MENT (NV-G10, G7 EG/EO) 2-11

SECTION 3

BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS 3-1
3-1. SYSTEM CONTROL/TIMER/TUNER & TV DEMODULATOR BLOCK DIAGRAM 3-1
3-2. LUMINANCE & CHROMINANCE BLOCK DIAGRAM 3-2
3-3. SERVO BLOCK DIAGRAM 3-3
3-4. POWER TRANSFORMER & POWER SUPPLY Section In Main Circuit Board 3-4
3-5. POWER TRANSFORMER & POWER SUPPLY SCHEMATIC DIAGRAM 3-5
3-6. SYSTEM CONTROL SCHEMATIC DIAGRAM 3-6
3-7. SYSTEM CONTROL Section In Main Circuit Board 3-7
3-8. SERVO SCHEMATIC DIAGRAM (NV-G10) 3-8

3-9. SERVO Section In Main Circuit Board (NV-G10) 3-8
3-10. SERVO PACK CIRCUIT BOARD (NV-G10) 3-9
3-11. SERVO PACK CIRCUIT BOARD (NV-G7) 3-10
3-12. SERVO Section In Main Circuit Board (NV-G7) 3-11
3-13. SERVO SCHEMATIC DIAGRAM (NV-G7) 3-11
3-14. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM 3-12
3-15. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM 3-12
3-16. LUMINANCE & CHROMINANCE Section In Main Circuit Board 3-13
3-17. LUMINANCE & CHROMINACE PACK CIRCUIT BOARD 3-13
3-18. SECAM PACK CIRCUIT BOARD 3-13
3-19. HQ & REC AMP PACK CIRCUIT BOARD 3-13
3-20. INPUT SELECT PACK CIRCUIT BOARD 3-13
3-21. HEAD AMP PACK SCHEMATIC DIAGRAM 3-14
3-22. HEAD AMP PACK CIRCUIT BOARD (NV-G10) 3-14
3-23. HEAD AMP PACK CIRCUIT BOARD (NV-G7) 3-14
3-24. AUDIO PACK CIRCUIT BOARD 3-14
3-25. AUDIO Section In Main Circuit Board 3-15
3-26. AUDIO & AUDIO PACK SCHEMATIC DIAGRAM 3-15
3-27. OPERATION, TIMER & CH SELECT SCHEMATIC DIAGRAM (NV-G10, G7EG) 3-16
3-28. OPERATION, TIMER & CH SELECT CIRCUIT BOARD (NV-G10, G7EG) 3-17
3-29. OPERATION, TIMER & CH SELECT SCHEMATIC DIAGRAM (NV-G10, G7B/EO) 3-18
3-30. OPERATION, TIMER & CH SELECT CIRCUIT BOARD (NV-G10, G7B/EO) 3-19
3-31. TUNER, TV DEMODULATOR & TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-G10, G7EG/EO) 3-20
3-32. TUNER & TV DEMODULATOR Section In Main Circuit Board (NV-G10, G7EG/EO) 3-21
3-33. TV DEMODULATOR PACK CIRCUIT BOARD (NV-G10, G7EG/EO) 3-21
3-34. TUNER & TV DEMODULATOR Section In Main Circuit Board (NV-G10, G7B) 3-22
3-35. TV DEMODULATOR PACK CIRCUIT BOARD (NV-G10, G7B) 3-22
3-36. TUNER, TV DEMODULATOR & TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-G10, G7B) 3-23
3-37. VPS INTERFACE SCHEMATIC DIAGRAM (NV-G10, G7EG) 3-24
3-38. VPS INTERFACE CIRCUIT BOARD (NV-G10EG) 3-24
3-39. RF CONVERTER SCHEMATIC DIAGRAM 3-24
3-40. RF CONVERTER CIRCUIT BOARD 3-24
3-41. IR REMOTE CONTROLLER SCHEMATIC DIAGRAM (NV-G10) 3-26
3-42. IR REMOTE CONTROLLER CIRCUIT BOARD (NV-G10) 3-26
3-43. IR REMOTE CONTROLLER SCHEMATIC DIAGRAM (NV-G7B) 3-27
3-44. IR REMOTE CONTROLLER CIRCUIT BOARD (NV-G7B) 3-27
3-45. CIRCUIT BOARD LAROUT 3-27
3-46. MAIN CIRCUIT BOARD 3-28
3-47. INTERCONNECTION SCHEMATIC DIAGRAM 3-29

SECTION 4

EXPLODED VIEWS & PARTS LIST 4-1
4-1. EXPLODED VIEW 4-1
    1. TRANSPORT SECTION 4-1
    2. MOVING MECHANISM SCTION 4-2
    3. CHASSIS PARTS SECTION 4-3
    4. CASSETTE UP MECHANISM SECTION 4-4
    5. CASING PARTS SECTION 4-5
    6. PACKING PARTS SECTION 4-6
    7. IR REMOTE CONTROL UNIT (NV-G10) 4-7
    8. IR REMOTE CONTROL UNIT (NV-G7B) 4-8
MECHANICAL REPLACEMENT PARTS LIST
ELECTRICAL REPLACEMENT PARTS LIST

REMARKS: NV-G10, G7EG West Germany model only

1. It is possible to receive, record and play back colour broadcasts from East Germany (DDR) on this video recorder.
2. When a video tape that was recorded with a colour TV broadcast from East Germany on this VTR is played back on a SECAM (France) or on a PAL VTR, the picture may be in black and white.
3. When a video tape recorded on a SECAM (France) VTR or a SECAM (France) Pre-recorded video tape is played back on this VTR, the picture is in black and white.

SECTION 1

GENERAL DESCRIPTION

1-1. FEATURES

1. Auto Operation

This VTR automatically turns itself on when a video cassette is inserted even if it was turned off. When the tab of the inserted cassette is broken out, playback will start automatically. Also, even if the VTR is off when the Eject Button is pressed, it automatically turns itself on to eject the cassette tape and it turns itself off again.

When a video cassette tape with a broken out tab is inserted and the VTR is switched over to recording, OTR or timer recording, the cassette tape will be automatically ejected. When the tape reaches its end (except during OTR and timer recording), it will automatically rewind to the beginning.

2. Super Still, Super Still Advance and Super Fine Slow Playback (NV-G10)

Super Still, Super Still Advance and Super Fine Slow Playback are possible with superb picture quality with minimum noise and jitter.

3. Super OTR Function (One-Touch Timer Recording)

This convenient function makes it possible to easily programme the VTR for recording of TV programmes with immediate start or with start within 24 hours and with the starting time and ending time precisely set to the desired minute. When the recording ends, the VTR will automatically turn itself off.

4. 14-Day, 4-Programme Timer

The built-in timer allows automatic absentee recording of up to 4 TV programmes within 14 days. It is also possible to record a programme which is broadcast at the same time every day.

5. Infra-red Remote Controller (NV-G10, NV-G7B)

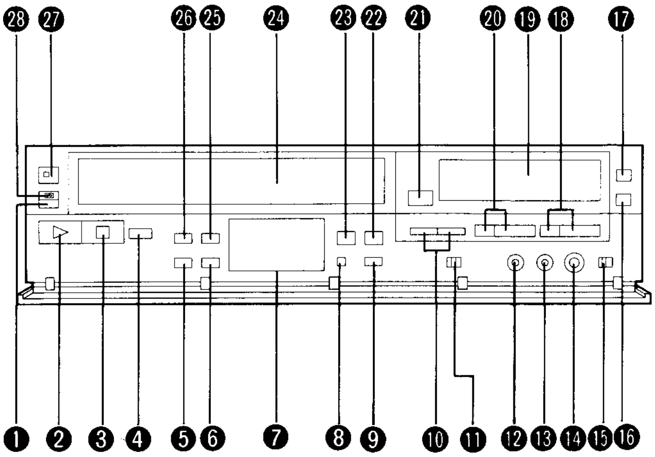
The Infra-red Remote Controller unit allows operation of various functions from the comfort of your favourite viewing position.

6. HQ (High Quality) Picture System

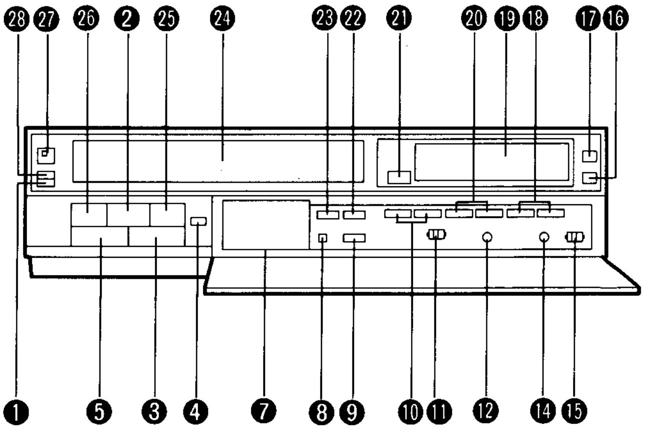
Video recorders carrying the HQ symbol mark feature the new VHS High Quality Picture System. This system assures complete compatibility with VTRs that use the conventional VHS system.

1-2. CONTROLS AND COMPONENTS

TOP AND FRONT



NV-G10



NV-G7

① **Eject Button**
Push this button to remove the cassette.

② **Play Button with Indicator**
Push this button to play back a recorded tape.

③ **Stop Button with Indicator**
Push this button to stop the tape.

④ **Record Button**
Push this button to start the recording.

⑤ **Pause/Still Button**
Push this button to temporarily stop the tape during recording in order to avoid recording unwanted material, or to view a paused picture during playback. Push again to release the tape from pause.

⑥ Slow Button (NV-G10)
During normal playback, the Slow-motion playback can be activated by pressing the Slow Button. When the Slow Button is intially pressed the speed will be approximately 1/8 that of normal speed. Push the Play Button to continue the normal playback.

⑦ Tuner preset Controls
Used to tune to any broadcast channel in your area.

⑧ Clock Button
Push this button to adjust the clock.

⑨ VPS/On Off Button (NV-G10, G7EG)
Push this button to not desire VPS-controlled timer recording. Then VPS indication will not appear.

⑩ Channel Selection Up and Down Buttons
Push the desired channel selector buttons to select the channel you wish to view record.

⑪ Input Signal Selector (NV-G10, G7EG/EO)
For selecting the input signal to be recorded.

⑫ Tracking Control

Noise Picture

Tapes recorded on another machine show noisy or a streaky playback, picture, rotate this control slowly in either direction until the picture is clear. The control should normally be kept in the "FIX" position.

⑬ Slow Tracking Control (NV-G10)
When noise bars appear during Super Still, Super Still Advance or Super Fine Slow playback, switch over to slow playback and turn the Slow tracking Control to the clockwise or counter clockwise to reduce the noise bars. Then resume the required mode.
It may not be possible to eliminate the noise bars completely.

⑭ Picture Sharpness Control
The picture sharpness control enables the playback picture to be adjusted so that its outlines are made more sharper or softer.
It has no effect when recording.

⑮ Timer Recording Switch

⑯ Memory/Search Lock Button
When this button is pressed once, the Memory Indicator "M" will light up, and when it is pressed one more time, the Search Lock Indicator "S" will appear instead. When it is pressed a third time, the Search Lock Indicator "S" will disappear.

⑰ Reset Button
Push the reset button to reset the Counter of Multi-Function Display to "0000".

⑱ Timer/OTR Off Buttons
Push this button to set the digital clock or OTR ending time.

⑲ Multi-Function Display

⑳ Timer/OTR On Buttons
Push this button to set the digital clock or OTR starting time.

㉑ Infra-red Remote Control Receiver Window
Receives the signal from the Infra-red Remote Control.

㉒ Day Button
Push the Day Button to set the day.

㉓ Programme Button

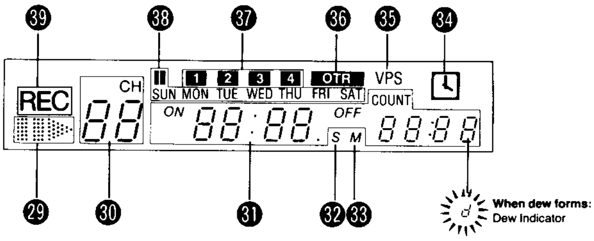
㉔ Cassette Compartment

㉕ Fast Forward/Cue Button
Push this button to fast-forward wind the tape. When this button is pressed during playback, the picture can be scanned will play back at 5 times normal speed.
Cueing will continue as long as the button is depressed.

㉖ Rewind/Review Button
Push this button to rewind the tape.
When this button is pressed during playback, the picture can be scanned in reverse at 5 times normal speed.
Review will continue as long as the button is depressed.

㉗ VTR On/Off Switch with Indicator

㉘ Cassette-in Indicator



㉙ Tape Running Display

㉚ Channel Display

㉛ Clock/Tape Counter Display

㉜ Search Lock Indicator

㉝ Memory Indicator

㉞ Timer Recording Display

㉟ VPS Indicator (NV-G10, G7EG)

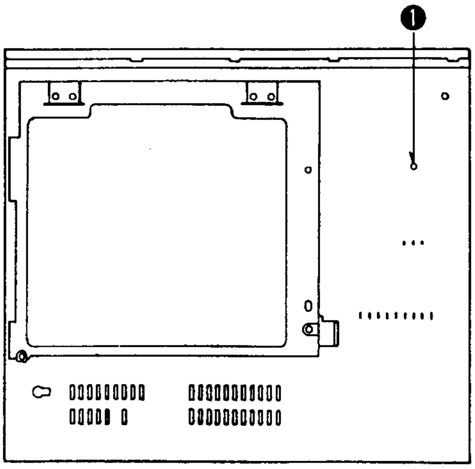
㊱ OTR Indicator

㊲ Timer Recording Number

㊳ Day Indicators

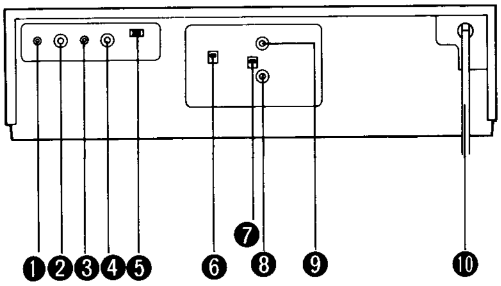
㊴ Recording Indicator

BOTTOM

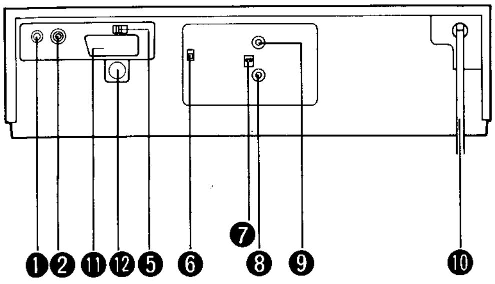


① **V-Lock**
If a vertical jitter appears on the TV monitor in Still, Still-Advance or Slow mode, adjust the V-lock control at the best position so that the picture can be stabilized.
Once you adjust this control, no more adjustment is required unless you change the connected TV receiver.

REAR



NV-G10, G7B



NV-G10, G7EG/EO

① **Audio Input Socket**
For connecting an audio cable of a video camera, a component audio system or another VTR.

② **Video Input Socket**
For connecting the video cable of a video camera or an output video signal of another VTR.

③ **Audio Output Socket (NV-G10, G7B)**
For connecting an audio cable of a TV monitor, a component audio system, or another VTR.

④ **Video Output Socket (NV-G10, G7B)**
For connection to a TV monitor or another Video Cassette Recorder. Not used with an ordinary TV.

⑤ **Colour Mode/Test Signal Switch**
In the TEST position, a black-and-white test pattern is generated, which allows easy tuning of your TV set to the video playback channel of the VTR. For normal recording and playback operation, this switch must be in the middle AUTO position.
Only if the colour reception of a station is particularily weak, setting this switch to the COLOUR position can improve the recording quality.

⑥ **Picture Detail Enhanser Selector**
For recording of TV programmes, this switch can be set to the HIGH position to enhance overall picture crispness and detail as well as to improve the legibility of characters and figures. When the reception signal is weak and when recording (dubbing) from another VTR, this switch must be set to the NORMAL position.
The position of this selector has no influence on the playback.

⑦ **RF Signal Level Switch (NV-G10, G7B/EO)**
Used to attenuate the reception of the VHF and/or UHF aerial signals.
If the reception is normal, set to "HIGH". If the signal strong (stripes appear in the upper part of the picture), set to "LOW".

⑧ **RF Input Socket**
Connect the external aerial, which is now connected to the TV set, to this socket.

⑨ **RF Output Socket**
For connection to the antenna terminal (COAXIAL type) of TV with the DIN-DIN Coaxial Cable supplied with the unit.

⑩ **AC Mains Cord**

⑪ **EURO AV Socket (NV-G10, G7EG/EO)**
Connect the AV Socket on the VTR to the AV Socket on the TV set.

- The AV Socket allows recording and playback of picture and sound. This connection can be used for TV sets which are also equipped with an AV Socket. Via this socket, TV programmes can be recorded, too. Such a connection improves the picture and sound quality during playback.

⑫ **VPS Socket (NV-G10, G7EG)**
Connect a VPS Adaptor (optional) to the VPS Adaptor Socket, if VPS-controlled timer recording is desired.

SECTION 2

ADJUSTMENT PROCEDURES

2-1. MECHANICAL ADJUSTMENT PROCEDURES

The Mechanical Chassis of these models NV-G10, G7 is similar to the D-1 Mechanical Chassis. Therefore please refer to the Service Manual D-1 Chassis (Order No. VRD-8310-490), except the confirmation and adjustment as shown below.

2-1-1. CONFIRMATION OF PRESSING FORCE OF PRESSURE ROLLER
2-1-2. CONFIRMATION OF BRAKE TORQUE
2-1-3. CONFIRMATION OF TAKE-UP TORQUE
2-1-4. ADJUSTMENT OF REVIEW TORQUE
2-1-5. ADJUSTMENT OF THRUST GAP

2-1-1. CONFIRMATION OF PRESSING FORCE OF PRESSURE ROLLER

* **Equipment Required:**
Fan-Type Tension Gauge (VFK66)

* **Specification:** 1350~1950 g

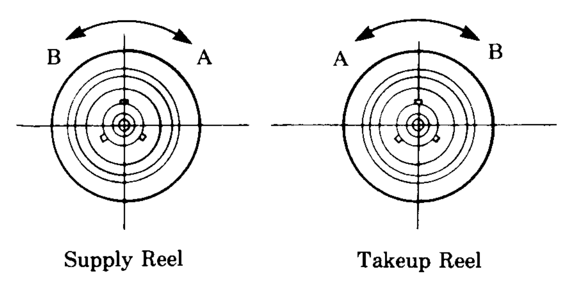
Note:

Procedures are the same as the Service Manual D-1 chassis item 1-1.
Please refer to the Service Manual D-1.
Chassis (Order No. VRD-8310-490)

2-1-2. CONFIRMATION OF BRAKE TORQUE

* **Equipment Required:**
Torque Gauge (VFK0133)
Adaptor for Gauge (VFK0134)

* **Specification:**



	A	B
Take-up	more than 400 g-cm	95~185 g-cm
Supply	more than 400 g-cm	70~150 g-cm

Fig. 1 Spec. of Brake Torque

Note:

Procedures are the same as the Service Manual D-1 Chassis item 1-4. Please refer to the Service Manual D-1 Chassis (Order No. VRD-8310-490).

2-1-3. CONFIRMATION OF TAKE-UP TORQUE

* **Equipment Required:**
Dial Gauge (VFK0133)
Adaptor for Gauge (VFK0134)

* **Specification:**
PLAY mode ....105~155 g-cm
FF mode ....more than 350 g-cm
REW mode ....more than 350 g-cm

Note:

Procedures are the same as the Service Manual D-1 Chassis item 1-5.
Please refer to the Service Manual D-1 chassis (Order No. VRD-8310-490).

2-1-4. ADJUSTMENT OF REVIEW TORQUE

* **Equipment Required:**
Dial Gauge (VFK0133)
Adaptor for Gauge (VFK0134)

* **Specification:**
Review mode ....200 ± 35 g-cm

Note:

Adjustment Procedures are the same as the Service Manual D-1 Chassis item 1-6.
Please refer to the Service Manual D-1 chassis (Order No. VRD-8310-490).

2-1-5. ADJUSTMENT OF THRUST GAP

* **Equipment Required:**
Reel Table Height Gauge (VFK0190)
Washer (more than 1 mm)

* **Specification:** 0.05~0.10 mm

Note:

Adjustment Procedures are the same as the Service Manual D-1 Chassis item 1-17.
Please refer to the Service Manual D-1 chassis (Order No. VRD-8310-490).

2-2. DISASSEMBLY METHOD

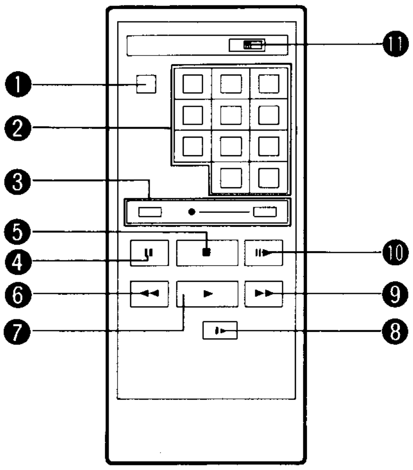
2-2-1. DISASSEMBLY FLOWCHART

This flowchart indicates disassembly items of the cabinet parts and C.B.A. in order to find the items necessary for servicing. When reassembling, perform the steps in the reverse order.

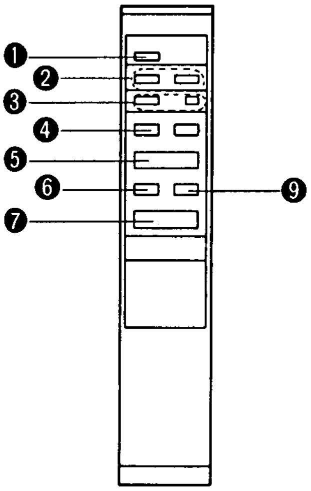
Note:

When removing the Front Panel, work with care not for breaking the locking portions of Panel.

INFRA-RED REMOTE CONTROLLER



NV-G10



NV-G7B

❶ **VTR On/Off Switch**
For turning the VTR on and off.

❷ **Programme Position (Channel) Selector Buttons**

NV-G10	
select channel	press button
1–9	1 – 9 respective channel
10	10/0
20	-/-- → 2 → 10/0
11–32	
for example 24	-/-- → 2 → 4
If more than 5 seconds pass between the first, second and thired push, the channel will not be changed normally.	

❸ **Record Buttons (●)**
To start recording, push the both buttons simultaneously.

❹ **Pause/Still Button (▮▮)**

❺ **Stop Button (■)**

❻ **Rewind ◀◀/Review ◂ Button**
When this button is kept pushed during playback, the VTR changes over to the Review playback mode.

❼ **Play Button (▶)**

❽ **Slow Button (▶) (NV-G10)**
Push the Slow Button for slow-motion playback at 1/8 of normal speed.
Note:
If the VTR is left in the slow playback mode for more than 10 minutes, the VTR will automatically switch over to the stop mode, to protect the tape and the video heads.
Adjust the Slow Tracking Control if necessary.

❾ **Fast Forward ▶▶/Cue ▸ Button**
When this button is kept pushed during playback, the VTR changes over to the Cue playback mode.

❿ **Still Advance Button (▮▮▶) (NV-G10)**

⓫ **Remote Control Switch (NV-G10)**
Set this switch to "On", to use the Remote Controller.

Power Source for the Infra-red Remote Controller

- ■ The Infra-red Remote Controller is powered by two IEC "R6" size batteries. The life of the batteries is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the batteries once a year.

CAUTION FOR BATTERY REPLACEMENT

- Load the new batteries with their polarities (⊕ and ⊖) aligned correctly.
- Do not apply heat to batteries, or internal short-circuit may occur.
- If you do not intend to use the Remote Controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new batteries together. (Also never use an alkaline battery with a manganese battery.)

Note:
- The infra-red beam should be transmitted directly at the Infra-red Remote Control Receiver on the front of the VTR.
- Direct sunlight may interfere with the beam.
- The lightsensing angle of the Infra-red Remote Control Receiver window in the VTR is about 40°.
- The unit should be used within a range of about 7 meters from the front of the VTR.

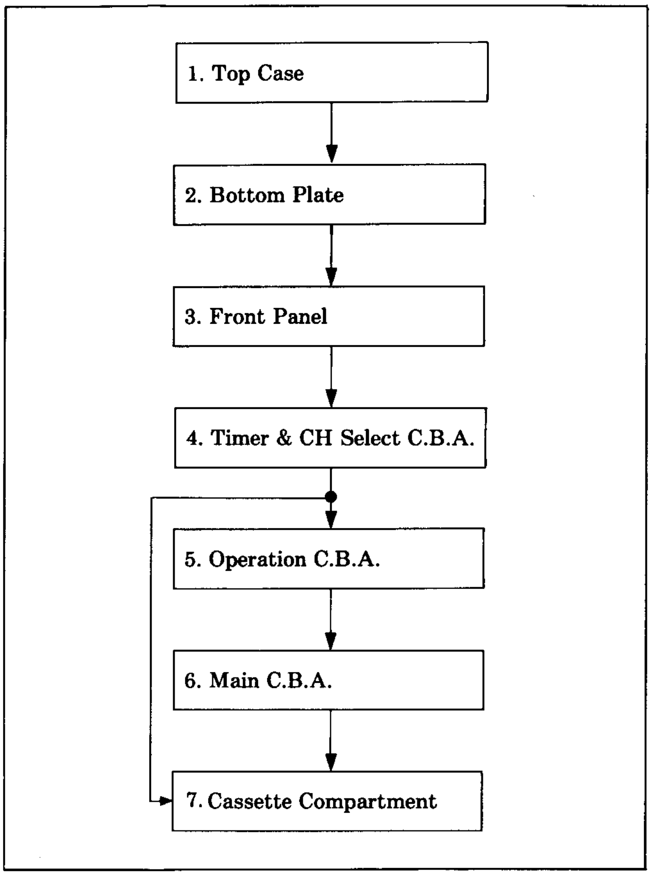

1. Top Case
2. Bottom Plate
3. Front Panel
4. Timer & CH Select C.B.A.
5. Operation C.B.A.
6. Main C.B.A.
7. Cassette Compartment

Fig. 2

2-2-2. DETAIL OF DISASSEMBLY METHOD

1. Removal of the Top Case

Remove the 2 screws (A) in case of NV-G10, G7B/EO, 4 screws (A) in case of NV-G10, G7EG.※ Then carefully lift the rear of the case to remove.

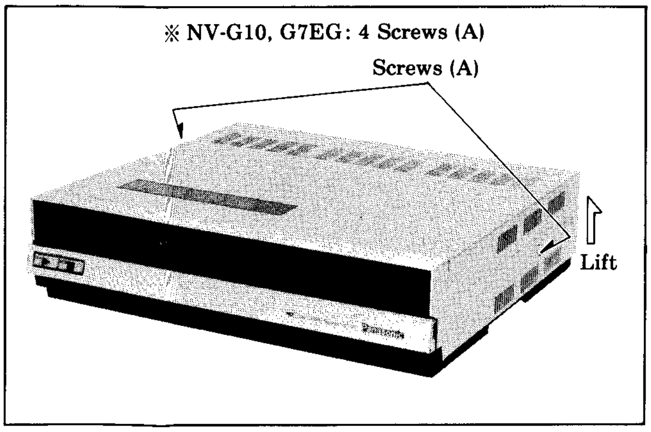

※ NV-G10, G7EG: 4 Screws (A)
Screws (A)
Lift

Fig. 3

2. Removal of the Bottom Plate

Place the deck upside down so the bottom side face upward. Then remove the 4 screws (B) in case of NV-G10, G7B/EO, 6 screws (B) in case of NV-G10, G7EG.※

Note:

Place the cushion under the deck for not being damaged the rear portion of the deck.

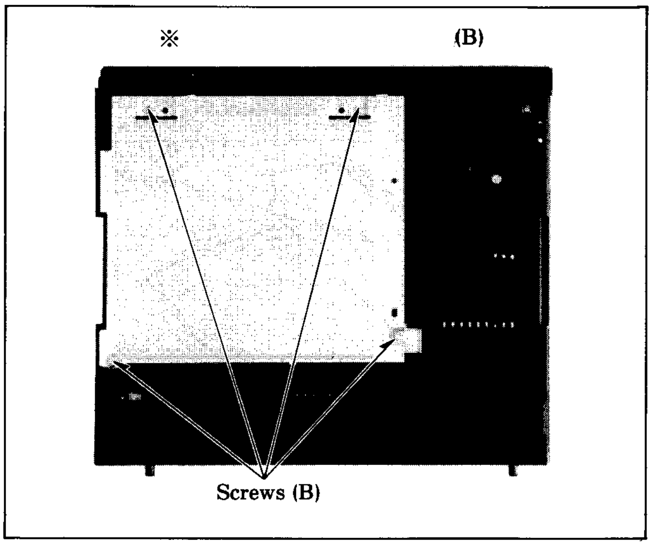


Fig. 4

3. Removal of the Front Panel

Remove the 4 screws (C) and unlock the 6 locking portions (D). Then hold the top portion of the panel and turn it toward the front side of the deck to remove.

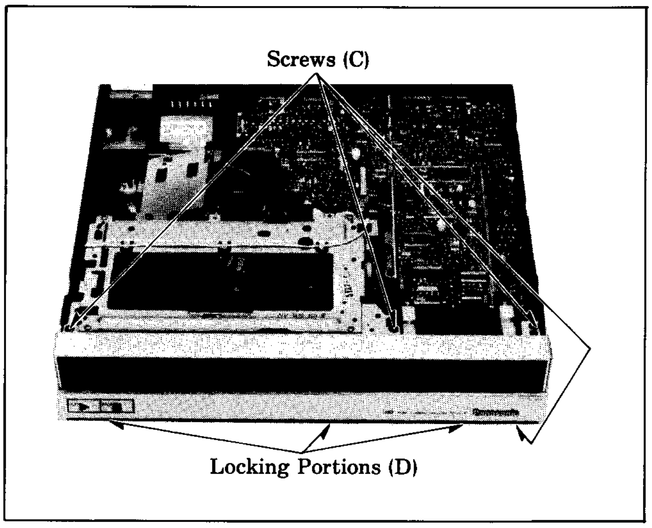

Screws (C)
Locking Portions (D)

Fig. 5

4. Removal of the Timer & CH Select C.B.A.

Remove the 3 screws (E) and unlock 2 locking portions (F).

5. Removal of the Operation C.B.A.

Remove the screw (G) and unlock 2 locking portions (H).

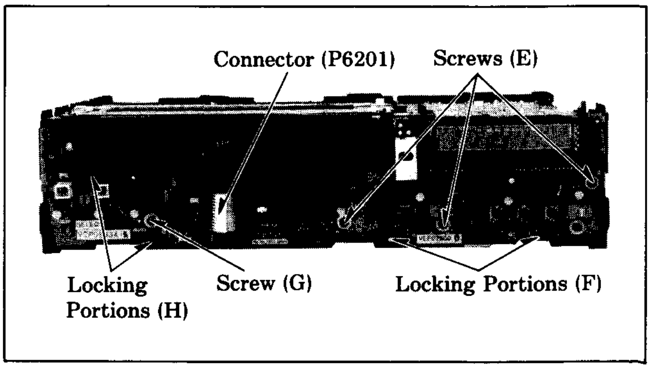

Connector (P6201)
Screws (E)
Locking Portions (H)
Screw (G)
Locking Portions (F)

Fig. 6

Note:

How to remove the connector (P6201)

(1) Please remove the connector (P6201) while pushing the top portion (I) to the direction shown by arrow mark.

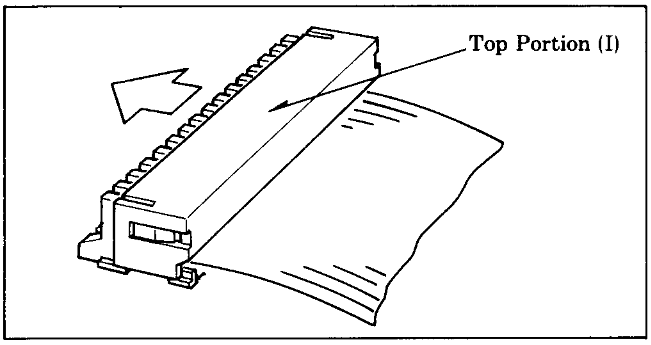

Top Portion (I)

Fig. 7

6. Removal of the Main C.B.A.

Remove the 7 screws (J) and remove the 2 clampers (K). Then open the Main C.B.A. with Timer & CH Select C.B.A. and Operation C.B.A.

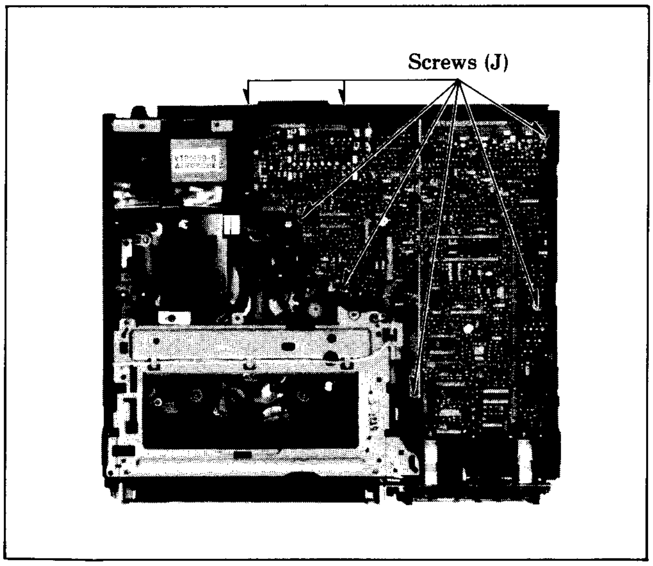


Fig. 8

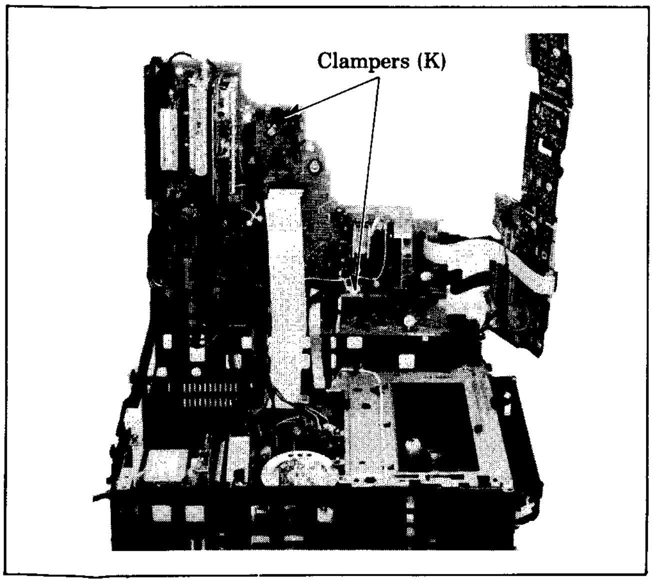


Fig. 9

7. Removal of the Cassette Compartment

Remove the 2 screws (L) and disconnect the connector P1510 from the Front Loading C.B.

Then carefully pull out the Cassette Compartment.

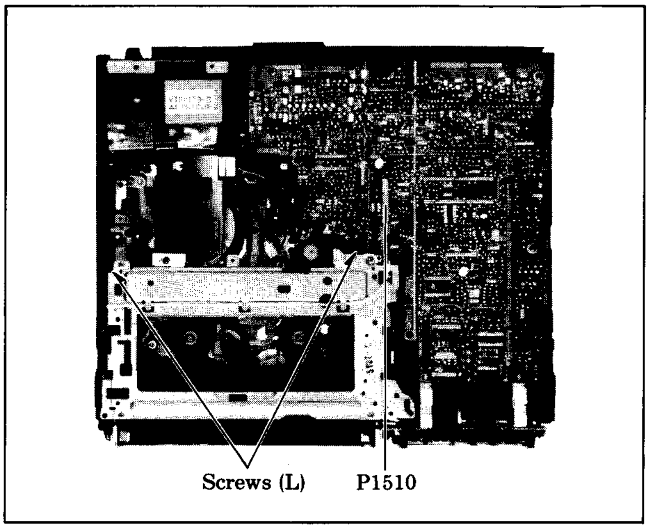

Screws (L)
P1510

Fig. 10

2-3. REPLACEMENT OF UPPER CYLINDER UNIT

Be sure to observe the following procedures when replacing the Upper Cylinder Unit.

1. Removing the Upper Cylinder Unit

First, remove two screws as shown in Fig. 15.

Then, unsolder 8 soldered portions indicated by arrows, on the C. Board and finally remove the Upper Cylinder Unit by lifting it upward.

Note:

Soldered portion can be easily removed by using solder sucking wire, etc.

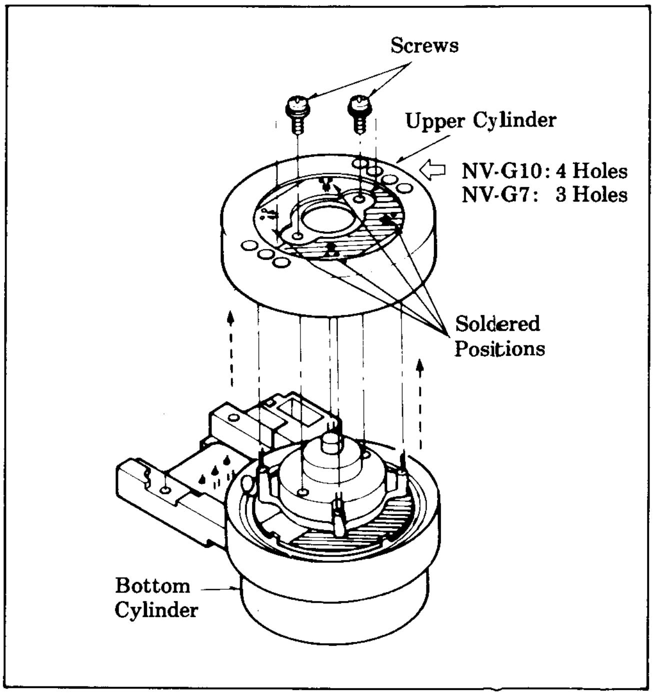

Screws
Upper Cylinder
NV-G10: 4 Holes
NV-G7: 3 Holes
Soldered Positions
Bottom Cylinder

Fig. 11

2. **Reinstalling the Upper Cylinder Unit**
   The Upper Cylinder Unit can be reinstalled by reversing the removal procedure.
   However, when reinstalling, be extremely careful so that both the white and green portions of the C. Board on the Upper Cylinder Unit will correctly match the white and green portions of the C. Board on Bottom Cylinder as shown in Fig. 12.

Note:

If the Upper Cylinder unit is reversely installed, no colour would appear when playing back a pre-recorded tape.

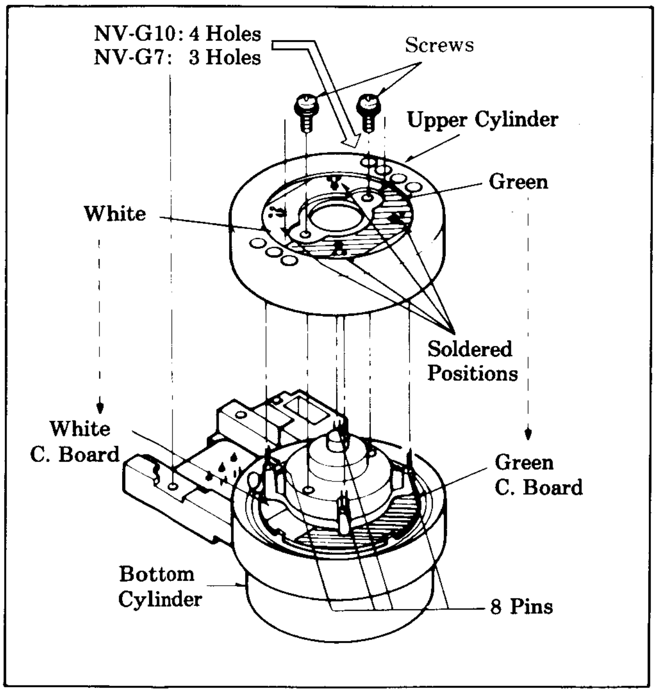

NV-G10: 4 Holes
NV-G7: 3 Holes
Screws
Upper Cylinder
Green
White
Soldered Positions
White C. Board
Green C. Board
Bottom Cylinder
8 Pins

Fig. 12

2-4. REPLACEMENT OF AC CORD

Note:

When AC cord is replaced, please change both AC Cord Cover and Binding Wire without fail for safety operation.

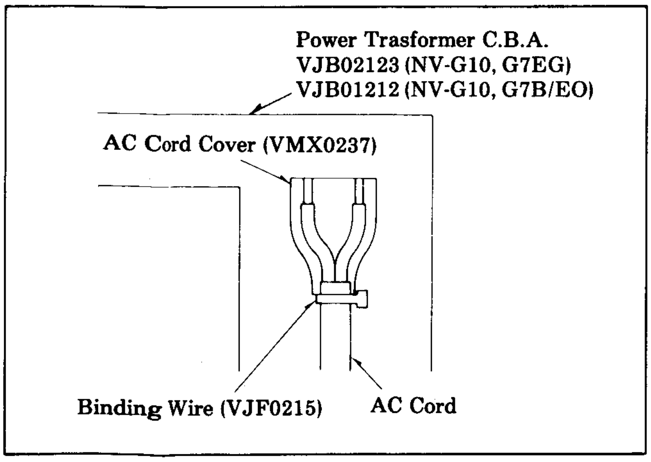

Power Trasformer C.B.A.
VJB02123 (NV-G10, G7EG)
VJB01212 (NV-G10, G7B/EO)
AC Cord Cover (VMX0237)
Binding Wire (VJF0215)
AC Cord

Fig. 13

2-5. ELECTRICAL ADJUSTMENT PROCEDURES

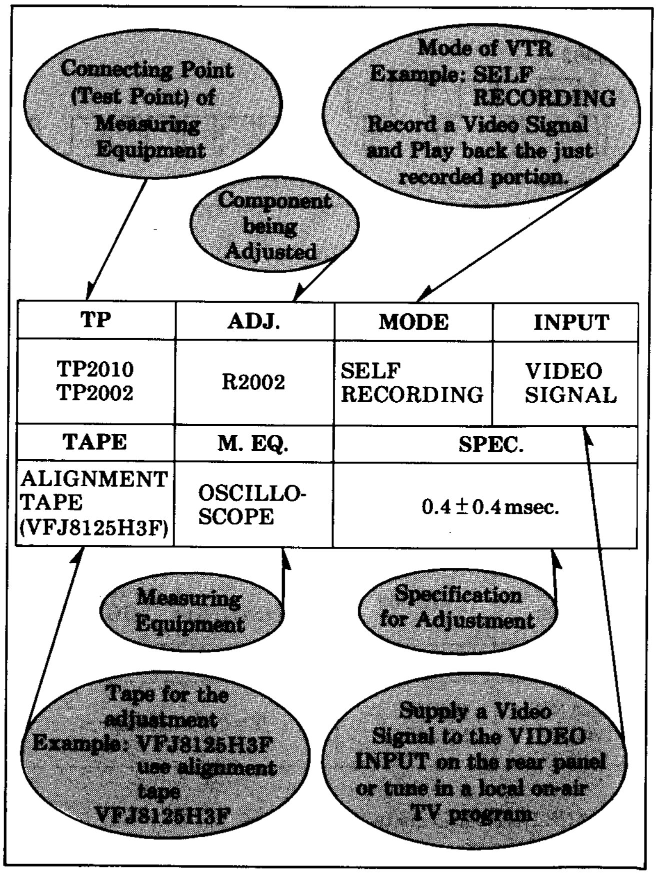
This section provides complete electrical adjustment procedures which may be required for electronic circuits of VHS Video Cassette Recorders NV-G10, G7.

2-5-1. TEST EQUIPMENTS

To perform the electrical adjustments completely, following equipments are required.

1. VTVM (Vacuum Tube Volt Meter) or DVM (Digital Volt Meter)
   Voltage Range: 0.001~50V
2. Dual-Trace Oscilloscope
   Voltage Range: 0.005~50V/div.
   Frequency Range: DC~30MHz
   Probes: 10:1 or 1:1
3. Frequency Counter
   Frequency Range: 0~10MHz
4. Signal Generator (Sinewave)
   Frequency Range: 0~10MHz
5. Video Sweep Generator
   Frequency Range: 0~10MHz
6. Colour Monitor TV
7. Plastic Tip Driver
8. VHS Alignment Tape (VFJ8125H3F)

2-5-2. HOW TO READ THE ADJUSTMENT PROCEDURES


Connecting Point (Test Point) of Measuring Equipment
Mode of VTR Example: SELF RECORDING Record a Video Signal and Play back the just recorded portion.
Component being Adjusted
Measuring Equipment
Specification for Adjustment
Tape for the adjustment Example: VFJ8125H3F use alignment tape VFJ8125H3F
Supply a Video Signal to the VIDEO INPUT on the rear panel or tune in a local on-air TV program

TP	ADJ.	MODE	INPUT
TP2010 TP2002	R2002	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE (VFJ8125H3F)	OSCILLO-SCOPE	0.4±0.4msec.	

Fig. 14

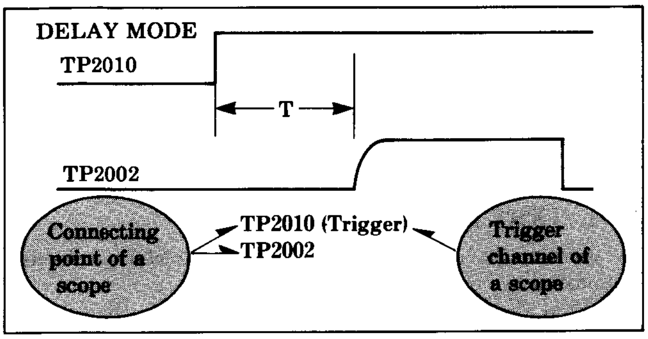

DELAY MODE
TP2010
T
TP2002
Connecting point of a scope
TP2010 (Trigger)
TP2002
Trigger channel of a scope

Fig. 15

SERVO SECTION

2-5-3. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3002 TP2001	VR2001	PLAY	
TAPE	**M. EQ.**	**SPEC.**	
ALIGNMENT TAPE (VFJ8125H3F)	OSCILLO-SCOPE	6.5±0.5H	

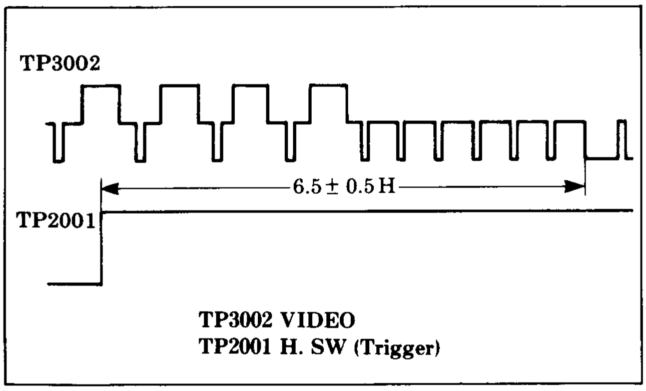

TP3002
6.5± 0.5H
TP2001
TP3002 VIDEO
TP2001 H. SW (Trigger)

Fig. 16

2-5-4. TRACKING FIX ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 TP2002	VR2002	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	T=0.4±0.4msec.	

1. TRACKING VR is centre fix position.
2. Playback the just recorded portion.
3. Adjust VR2002 so that the period of "T" becomes 0.4±0.4msec. as shown below.

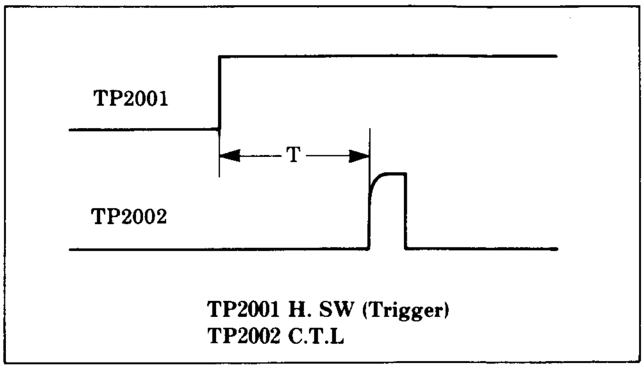

TP2001
T
TP2002
TP2001 H. SW (Trigger)
TP2002 C.T.L

Fig. 17

2-5-5. SLOW TRACKING FIX ADJUSTMENT (FOR NV-G10)

TP	ADJ.	MODE	INPUT
TP2020 TP2002	VR2011	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	T=32.5±2.5msec.	

1. SLOW TRACKING VR is centre position.
2. Playback the just recorded portion.
3. Place the deck in SLOW mode.
4. Adjust VR2011 so that the period of "T" becomes 32.5±2.5msec. as shown below.

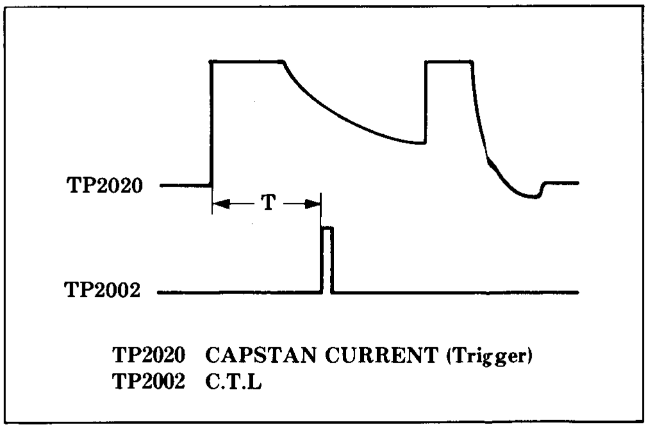

TP2020
T
TP2002
TP2020 CAPSTAN CURRENT (Trigger)
TP2002 C.T.L

Fig. 18

2-5-6. ARTIFICIAL V-SYNC ADJUSTMENT

TP	ADJ.	MODE	INPUT
	VR2003	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	TV MONITOR		

1. Playback the just recorded portion and place the deck in STILL mode.
2. Adjust VR2003 so that the V-dancing does not appear on the TV Monitor screen.

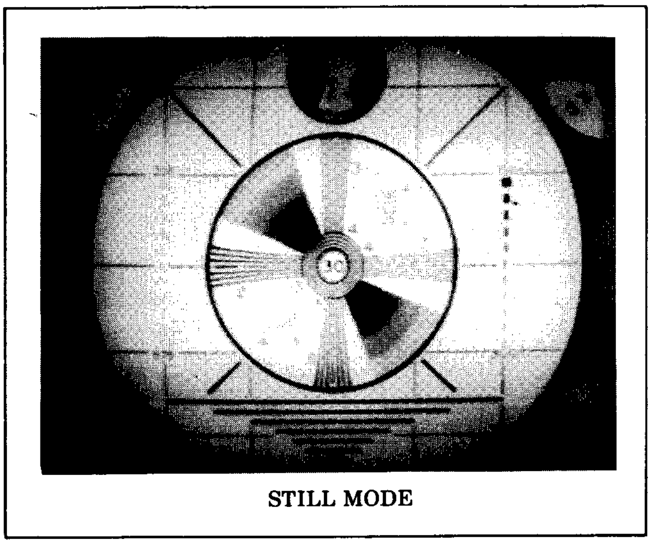


Fig. 19

LUMINANCE, CHROMINANCE & HEAD AMP SECTION

2-5-7. HQ AMP GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
Q3601-Ⓑ (CH1) Q3604-Ⓔ (CH2)	VR3601	STOP	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	0± 20mV	

1. Make the connection as shown below.

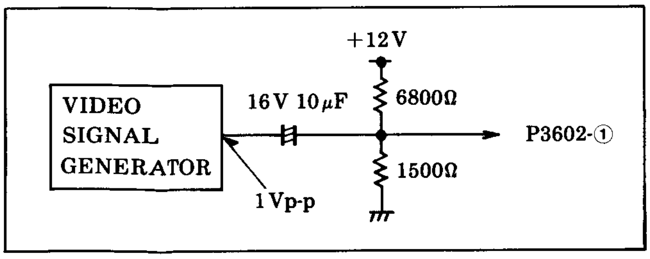


Fig. 20

2. Set the output of VIDEO SIGNAL GENERATOR to 1Vp-p (Colour Bar Signal).
3. Connect the oscilloscope to Q3601-Base (CH1) and Q3604-Emitter (CH2)
4. Set the oscilloscope to "ADD" mode.
   And set the Porality switch of CH2 side to "INV" (Invert) mode.
5. Adjust the VR3601 so that operational amplitude becomes 0 ± 20mV (minimum as possible) as shown below.

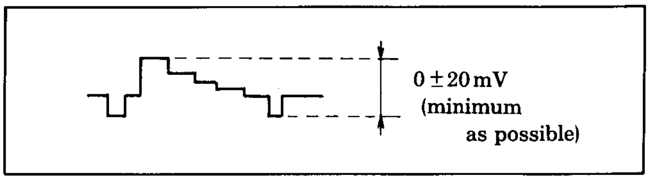


Fig. 21

2-5-8. LUMINANCE RECORDING CURRENT ADJUSTMENT

	TP	ADJ.	MODE	INPUT
*	TP3003 (HOT) TP3004 (GND)	VR3001	REC · PLAY	VIDEO SIGNAL
	TAPE	**M. EQ.**	**SPEC.**	
	BLANK TAPE	OSCILLO-SCOPE	150 ± 5mVp-p	

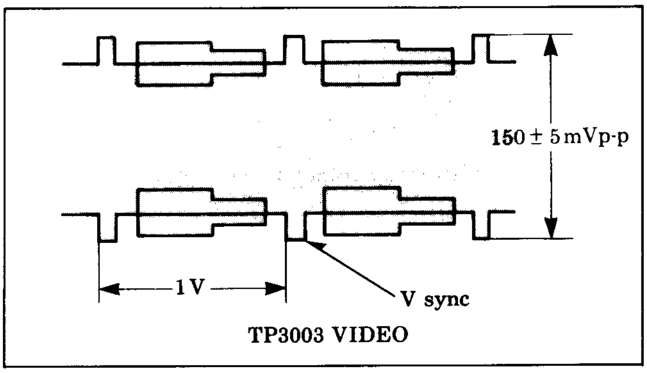


Fig. 22

*** Note:**
Test points TP3003 and TP3004 are located on the Head Amp Pack C.B.A (VEP05082).

2-5-9. PLAYBACK CHROMA CYAN LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR801	SELF RECORDING	VIDEO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	OSCILLO-SCOPE	0.55 ± 0.05 Vp-p	

1. Playback the just recorded portion.
2. Adjust VR801 so that the cyan signal becomes 0.55 ± 0.05 Vp-p.

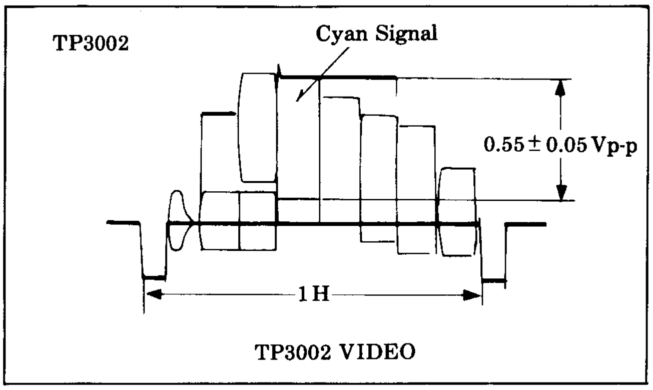
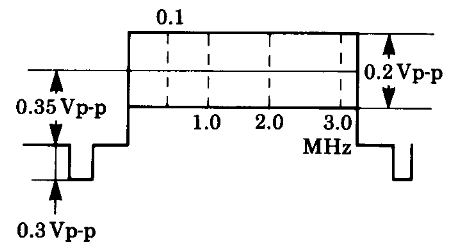


Fig. 23

2-5-10. HEAD AMP FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR3051	SELF RECORDING	VIDEO SWEEP
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	VIDEO SWEEP/ OSCILLOSCOPE		

1. Set the sweep generator output as shown below.



Conditions: 1. Burst Signal off.
2. 75Ω terminated.

Fig. 24

2. Set the "DETAIL SW" (Rear Side) to normal position.
3. PICTURE VR is centre fix position.
4. Playback the just recorded portion.
5. Adjust VR3051 so that the waveform becomes as shown below.

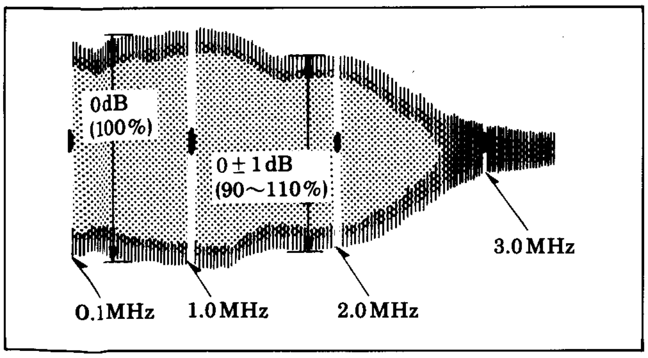


Fig. 25

AUDIO SECTION

2-5-11. AUDIO BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
P4002-② (+) AUDIO PACK-⑦ (−)	VR4002	REC · PLAY	
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	V.T.V.M.	3.4 ± 0.1 mVrms	

2-5-12. AUDIO PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUDIO OUT (TP4001)	VR4001	SELF RECORDING	1 kHz, 0 dB AUDIO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
BLANK TAPE	SIGNAL GENERATOR/ V.T.V.M.	E-E Level = −7 ± 2 dB P.B. Level = E-E Level ± 0.5 dB	

Note:

Before this adjustment, "Tape Interchangeability Adjustment" and "Audio Bias Current Adjustment" must be completed.

1. Playback the just recorded portion.
2. Adjust VR4001 so that the level of the playback waveform becomes E-E level ± 0.5 dB.

TIMER, SYSTEM CONTROL SECTION

2-5-13. TIMER RESET ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7508	VR7502		
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLOSCOPE/ 2 DC POWER SUPPLIES		

1. Set the voltage of the DC POWER SUPPLY (A) for 4.6 ± 0.05 V and supply to IC 7551-⑧ (+) and GND (−).
2. Set the voltage of the DC POWER SUPPLY (B) for 45 ± 1 V and supply to anode of D7555.
3. Turn the VR7502 fully clockwise .
4. Turn the VR7502 counterclockwise slowly until the voltage at TP7508 is Low Level (0 V).
5. Change the voltage of the DC POWER SUPPLY (A) from 4.6 ± 0.05 V to 4.8 ± 0.05 V.
6. Confirm the voltage at TP7508 is High Level.

2-5-14. INFRARED TUNING FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP7581	T7501		35kHz 20μVrms AUDIO SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE/ SIGNAL GENERA-TOR (SINE WAVE)		

1. Set the SIGNAL GENERATOR for 35±0.05kHz and 20μVrms, supply to anode of D6204.
2. Connect the oscilloscope to TP7581.
3. Adjust T7501 so that the waveform becomes maximum.

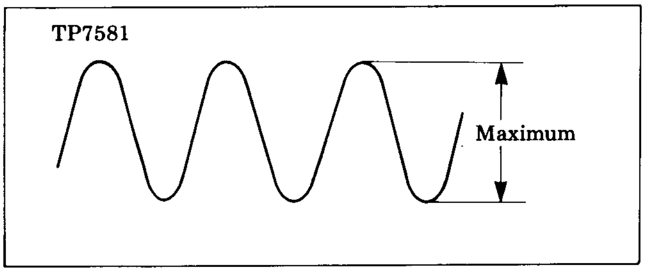


Fig. 26

TV DEMODULATOR SECTION

Since defferent models, such as EG/B and EO are combined into one procedure, pay attention not to adjust different specifications.

2-5-15. TEST EQUIPMENTS

To make adjustment completely, following equipments are required.

1. VIF SWEEP GENERATOR with the Trap Adjustor
   38.9MHz (NV-G10, G7EG/EO).
   39.5MHz (NV-G10, G7B).
2. SIF SWEEP GENERATOR
   5.5MHz±150kHz (NV-G10, G7EG/EO)
   6.0MHz±150kHz (NV-G10, G7B)
3. CW OSCILLATOR
   38.9MHz±100kHz (NV-G10E, G7EG/EO).
   39.5MHz±100kHz (NV-G10, G7B)
4. MONITOR SCOPE
5. OSCILLOSCOPE
6. DIGITAL VOLT METER

Note:

To make this adjustment, please set the TV Demodulator Pack as shown below.

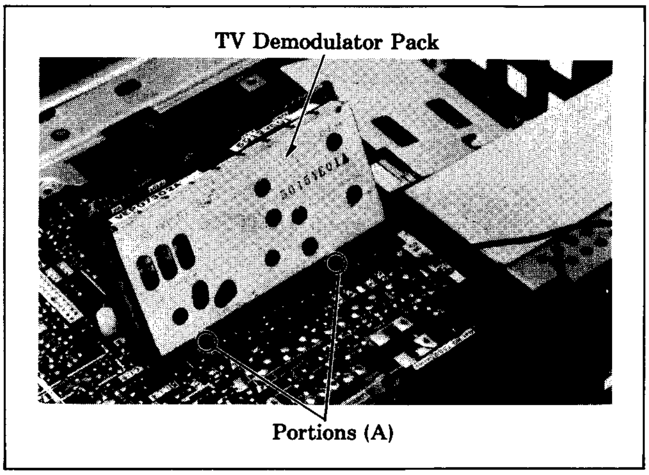


Fig. 27

1. First, remove the TV Demodulator Pack from the Main C.B. (VJB06333). Then, reinstall the TV Demodulator Pack to the Main C.B. on foil side and finally solder the soldering portions of the TV Demodulator Pack.
   However, when reinstalling, be extremely careful so that the portions (A) of the TV Demodulator Pack do not touch the Main C.B. (VJB06333).

2-5-16. SELECTIVE COIL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T703 T704		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP/ MONITOR SCOPE	A=0.1Vp-p B=38.9MHz (NV-G10, G7EG/EO) B=39.5MHz (NV-G10, G7B)	

1. Set the BAND SW of the deck to the VHF high position (VH) (NV-G10, G7EG/EO). And turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15±1V.
2. Set the MEMORY/AFC SW of the deck to OFF mode.
3. Connect a jumper wire between TUNER AGC Terminal and GND.
4. Connect the VIF SWEEP to TP703 and connect the MONITOR SCOPE to TP707 as shown is Fig. 28.

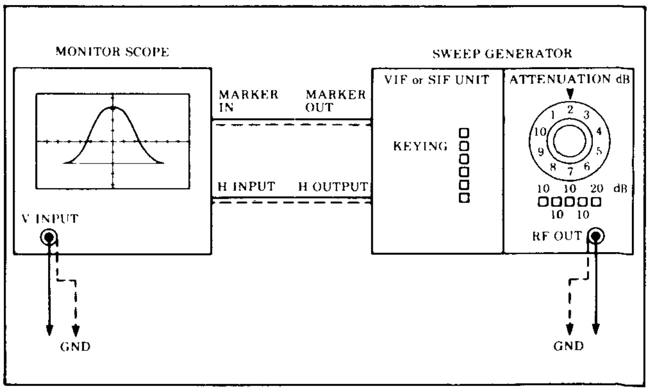


Fig. 28 Connection of Measuring Equipment

5. Connect the JIG. to both points TP709 and TV DEMODULATOR PACK-③ as shown in Fig. 29.

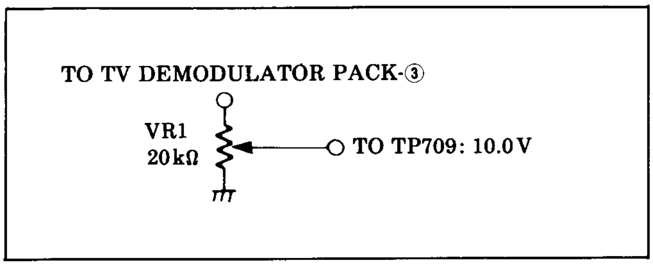


Fig. 29 Adjustment JIG. 2

6. Adjust the output of the VIF SWEEP GENERATOR so that the sweep wave becomes A.
7. Adjust T703 so that the marker position at B becomes peak point as shown in Fig. 30.

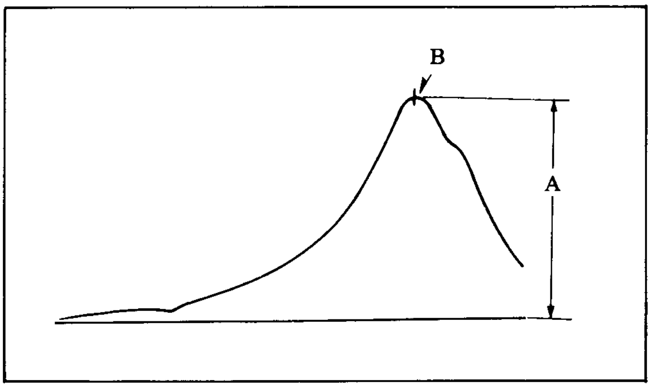


Fig. 30

8. Adjust T704 so that the marker position at B becomes as shown in Fig. 31.

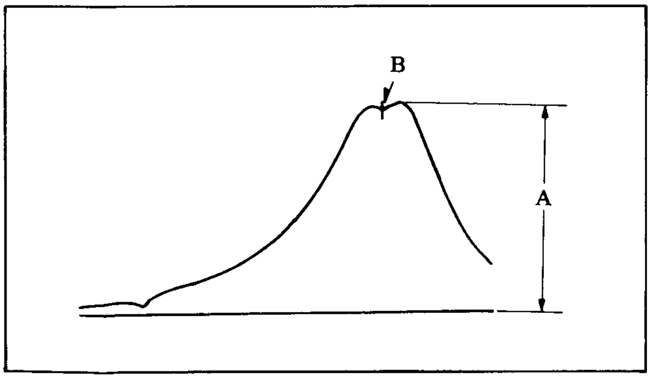


Fig. 31

2-5-17. VIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP707	T701 T702 T705 (NV-G10, G7EG/EO)		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP/ MONITOR SCOPE	Refer to the VIF Specification chart. (Fig. 34.)	

1. Set the BAND SW to the VHF high position (VH) (NV-G10, G7EG/EO). And turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V±1V.
2. Set the MEMORY/AFC SW of the deck to OFF mode.
3. Connect a 100Ω resistor between TP704 and TP705.
4. Connect a jumper wire between TUNER AGC Terminal and GND.
5. Connect the VIF SWEEP GENERATOR to TUNER TEST POINT. And connect the MONITOR SCOPE to TP707.
6. Adjust the output of the VIF SWEEP GENERATOR so that the sweep wave becomes 1.0Vp-p. Then release 20dB attenuation from the attenuator of the VIF SWEEP GENERATOR.
7. Connect the JIG. both points TP709 and TV DEMODULATOR PACK-③.
8. Adjust T702 so that the (fs) trap becomes minimum.
9. Adjust T701-(A) so that the (fs′) trap becomes minimum.
10. Adjust T705 that the (fp′) trap becomes minimum (NV-G10, G7EO).
11. Adjust T701-(B) so that the (fp′) trap becomes minimum (NV-G10, G7EG).
12. Adjust T705 so that the (fN) trap becomes minimum (NV-G10, G7EG).
13. Readjust the (fp′) trap and (fN) trap mutually several times (NV-G10, G7EG)
14. Adjust VR1 of the JIG. so that the sweep wave becomes 1.0Vp-p.
15. Adjust the tuner converter coil and T701-(C) so that the sweep output waveform becomes as shown in Fig. 35.

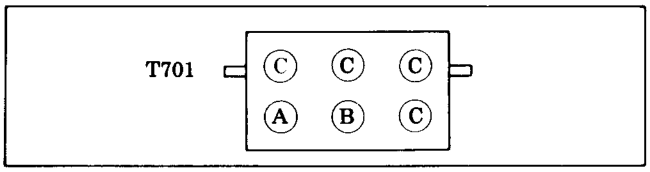


Fig. 32

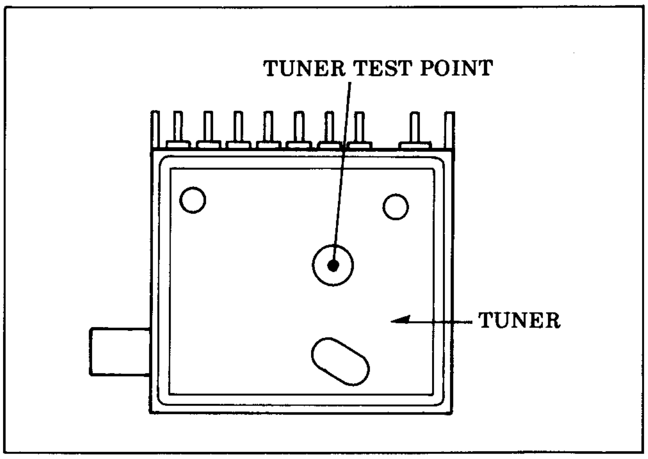


Fig. 33

16. In the case of NV-G10, G7EG, adjust the VR1 of the JIG. so that the voltage at TP709 becomes 10V, and set the sweep output to 2Vp-p. Then, confirm the fp′, fN, fs and fs′ markers are less than 700mV. If those markers are not in the specification, readjust the fp′, fN, fs and fs′ traps.

MODEL NO.		NV-G10, G7EG	NV-G10, G7B	NV-G10, G7EO
MARKER FREQUENCY	fs′	40.4MHz	41.5MHz	40.4MHz
	fp	38.9MHz	39.5MHz	38.9MHz
	f1	38.15MHz	38.6MHz	38.15MHz
	f2	35.22MHz	35.5MHz	35.22MHz
	fc	34.47MHz	35.07MHz	34.47MHz
	f3	33.97MHz	34.57MHz	33.97MHz
	fs	33.4MHz	33.5MHz	33.4MHz
	fN	32.4MHz	——	——
	fp′	31.9MHz	——	31.9MHz
SPECIFICATIONS	fp	30±5%	35±5%	30±5%
	f1	80±10%	65±10%	80±10%
	f2	80±10%	70±10%	80±10%
	fc	50±5%	50±5%	50±5%
	f3	18~22%	25~35%	15~25%

Fig. 34 VIF Specifications Chart

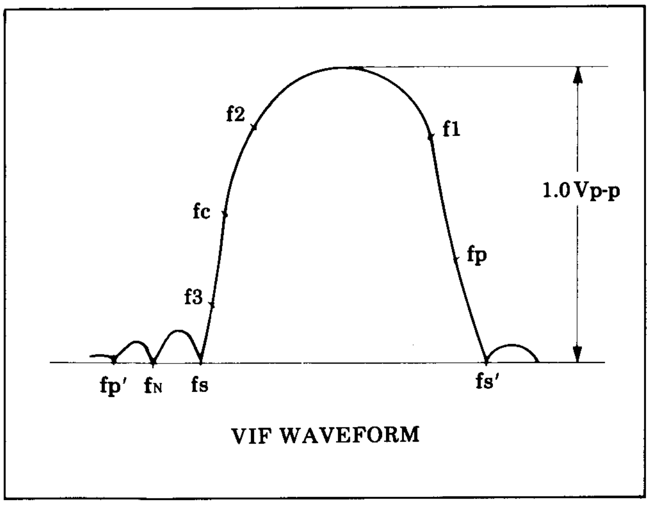


Fig. 35

2-5-18. SIF SWEEP ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUDIO OUT (TV DEMODULATOR PACK-④)	T751 T752 VR751		SIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	VIF SWEEP/ MONITOR SCOPE	A=5.5MHz (NV-G10, G7EG/EO) A=6.0MHz (NV-G10, G7B)	

1. Connect a jumper wire between IC7651-⑨and GND (NV-G10, G7EG/EO).
2. Set the BAND SW of the deck to the VHF high position (VH) (NV-G10, G7EG/EO). Turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V±1V.
3. Set the MEMORY/AFC SW of the deck to the OFF mode.
4. Connect the SIF SWEEP GENERATOR to TP706. And connect the MONITOR SCOPE to AUDIO OUT.
5. Connect the JIG. both points TP709 and TV DEMODULATOR PACK-③. Adjust the VR1 of the JIG. so that the DC level becomes less than 5V.
6. Set the output of the SIF SWEEP GENERATOR to 250mVp-p at no load.
7. Adjust VR751 so that the SIF waveform becomes maximum.
8. Adjust T752 so that the attenuation of (A) trap becomes minimum.
9. Adjust T751 for maximum peak-to-peak amplitude of response "S" curve as shown in Fig. 36.

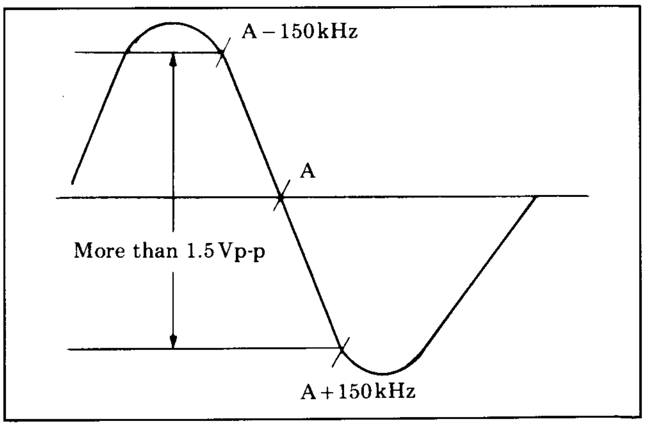


Fig. 36 SIF WAVEFORM

10. Confirm that the level between the 150kHz marker positions is more than 1.5Vp-p.

2-5-19. AFC ADJUSTMENT

TP	ADJ.	MODE	INPUT
AFC TERMINAL OF THE TUNER	T704		CW SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	CW OSCILLATOR/ D.V.M.	A=38.9MHz (NV-G10, G7EG/EO) A=39.5MHz (NV-G10, G7B)	

1. Set the BAND SW of the deck to the VHF high position (VH) (NV-G10, G7EG/EO). And turn the tuning volume so that the voltage at BT terminal of the tuner becomes 15V±1V.
2. Set the CW OSCILLATOR output to (A) MHz and 1Vp-p. and connect the CW OSCILLATOR output to the TUNER TEST POINT.
3. Connect the D.V.M to the AFC TERMINAL of the tuner.
4. Read the value "B" of the D.V.M, when the MEMORY/AFC SW is OFF.
5. Set the MEMORY/AFC SW to ON and adjust T704 for B±0.3V.
6. Change the frequency of the CW OSCILLATOR ±100kHz centred at (A) MHz and confirm that the difference of the AFC voltage is more than ±2V.

2-5-20. VIDEO FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT (TV DEMODU-LATOR PACK-②)	VR741		VIF SWEEP
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE/ VIF SWEEP		

1. Connect the VIF SWEEP GENERATOR to TUNER Unit directly after removing the connector from RF Connector.
2. Set the BAND SW to the VHF high position (VH) (NV-G10, G7EG/EO) and tune the tuning volume so that the VIF SWEEP signal is able to receive.
3. Set the MEMORY/AFC SW to ON mode.
4. Set the output of the VIF SWEEP GENERATOR to 800mVp-p.
5. Adjust VR741 so that the waveform at the VIDEO OUT (TV Demodulator Pack-②) becomes as shown below.

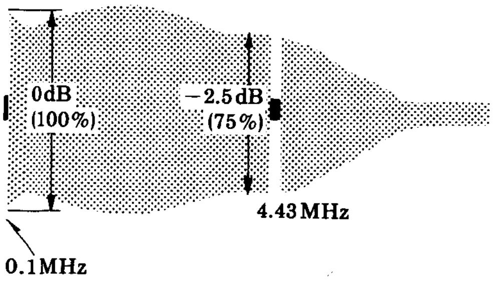


Fig. 37

2-5-21. AUDIO LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUIDO OUT (TV DEMODU-LATOR PACK-④)	VR751		RF SIGNAL
TAPE	**M. EQ.**	**SPEC.**	
	OSCILLO-SCOPE	200mV±10mVp-p	

1. Supply the RF Signal to RF IN TERMINAL and tune this signal.
2. Set the AFC SW to ON position.
3. Adjust VR751 so that the audio level becomes 200±10mVp-p.

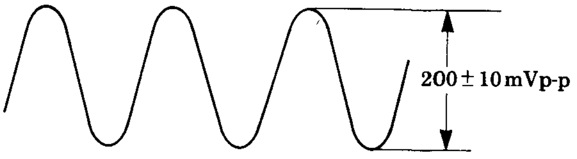


Fig. 38

2-5-22. TIMER MUTING FREQUENCY ADJUSTMENT (NV-G10EG/EO, G7EG/EO)

TP	ADJ.	MODE	INPUT
IC7651-④	VR7660		
TAPE	**M. EQ.**	**SPEC.**	
	FREQUENCY COUNTER	15625±50Hz	

Note:

To make this adjustment, please prepare the following circuit, Refer to Fig. 39.

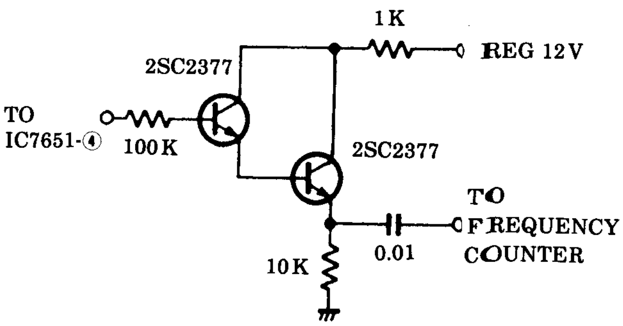
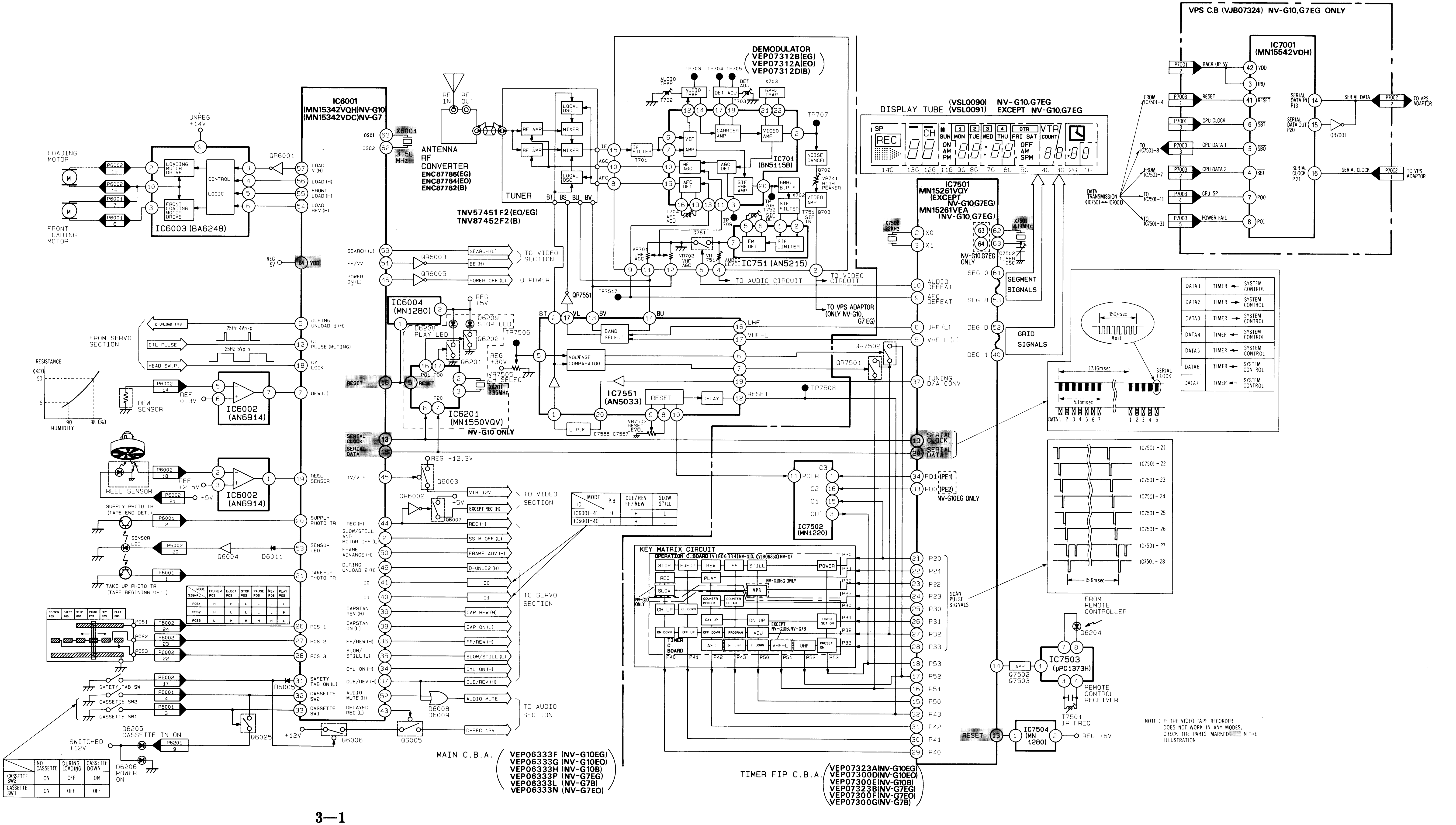


Fig. 39 Adjustment Circuit

SECTION 3
BLOCK DIAGRAMS & SCHEMATIC DIAGRAMS
3-1. SYSTEM CONTROL/TIMER/TUNER & TV DEMODULATOR BLOCK DIAGRAM


VPS C.B (VJB07324) NV-G10,G7EG ONLY
IC7001
(MN15542VDH)
P7001 2 BACK UP 5V
42 VDD
3 IRQ
FROM IC7501-4
P7003 1 RESET
41 RESET
P7001 3 CPU CLOCK
6 SBT
TO IC7501-8
P7003 3 CPU DATA 1
5 SBO
FROM IC7501-7
P7003 2 CPU DATA 2
4 SBI
TO IC7501-11
P7003 4 CPU SP
7 PO0
TO IC7501-31
P7003 5 POWER FAIL
8 PO1
DATA TRANSMISSION (IC7501↔IC7001)
SERIAL DATA IN P13
14
SERIAL DATA OUT P20
15
QR7001
SERIAL CLOCK P21
16
SERIAL DATA
SERIAL CLOCK
P7002 2
P7002 1
TO VPS ADAPTOR
TO VPS ADAPTOR
IC6001
(MN15342VQH)NV-G10
(MN15342VDC)NV-G7
OSC1 63
OSC2 62
X6001
3.58 MHz
UNREG +14V
9
LOADING MOTOR
FRONT LOADING MOTOR
P6002 15
P6002 16
P6001 7
P6001 6
LOADING MOTOR DRIVE
FRONT LOADING MOTOR DRIVE
CONTROL LOGIC
IC6003 (BA6248)
QR6001
57 LOAD V (H)
56 LOAD (H)
55 FRONT LOAD (H)
54 LOAD REV (H)
REG 5V
64 VDD
SEARCH (L) 59
EE/VV 51
POWER ON (L) 46
QR6003
QR6005
SEARCH (L)
EE (H)
POWER OFF (L)
TO VIDEO SECTION
TO POWER
IC6004 (MN1280)
D6208 PLAY LED
D6209 STOP LED
REG +5V
Q6202
Q6201
TP7506
REG +30V
VR7505 CH SELECT
X6201 3.95MHz
IC6201 (MN1550VQV)
NV-G10 ONLY
P01 P00
P20
RESET 16
SERIAL CLOCK 13
SERIAL DATA 15
FROM SERVO SECTION
D-UNLOAD 1 (H)
CTL PULSE
HEAD SW.P.
25Hz 4Vp-p
25Hz 5Vp-p
5 DURING UNLOAD 1 (H)
12 CTL PULSE (MUTING)
18 CYL LOCK
RESISTANCE (KΩ)
50
5
90 98 (%)
HUMIDITY
DEW SENSOR
P6002 14
REF 0.3V
IC6002 (AN6914)
7 DEW (L)
REEL SENSOR
P6002 18
P6002 21
REF +2.5V
+5V
IC6002 (AN6914)
19 REEL SENSOR
SUPPLY PHOTO TR (TAPE END DET.)
P6001 2
20 SUPPLY PHOTO TR
SENSOR LED
P6002 20
Q6004
D6011
53 SENSOR LED
P6001 1
TAKE-UP PHOTO TR (TAPE BEGINING DET.)
21 TAKE-UP PHOTO TR
TV/VTR 45
REG +12.3V
Q6003
QR6002
Q6007
VTR 12V
EXCEPT REC (H)
REC (H)
TO VIDEO SECTION
REC (H) 44
SLOW/STILL AND MOTOR OFF (L) 2
FRAME ADVANCE (H) 50
DURING UNLOAD 2 (H) 49
C0 41
C1 40
CAPSTAN REV (H) 39
CAPSTAN ON (L) 38
FF/REW (H) 36
SLOW/STILL (L) 35
CYL ON (H) 34
CUE/REV (H) 37
AUDIO MUTE (H) 52
DELAYED REC (L) 43
SS M OFF (L)
FRAME ADV (H)
D-UNLD2 (H)
C0
C1
CAP REW (H)
CAP ON (L)
FF/REW (H)
SLOW/STILL (L)
CYL ON (H)
CUE/REV (H)
AUDIO MUTE
D-REC 12V
TO SERVO SECTION
TO AUDIO SECTION
D6008 D6009
Q6005
Q6006
+12V
POS1 P6002 24
POS2 P6002 23
POS3 P6002 22
26 POS 1
27 POS 2
28 POS 3
FF/REW POS
EJECT POS
STOP POS
PAUSE POS
REV POS
PLAY POS
SAFETY TAB SW
CASSETTE SW2
CASSETTE SW1
P6002 17
P6001 4
P6001 3
D6005
31 SAFETY TAB ON (L)
32 CASSETTE SW2
33 CASSETTE SW1
Q6025
D6205 CASSETTE IN ON
SWITCHED +12V
P6201 9
D6206 POWER ON
MAIN C.B.A.
VEP06333F (NV-G10EG)
VEP06333G (NV-G10EO)
VEP06333H (NV-G10B)
VEP06333P (NV-G7EG)
VEP06333L (NV-G7B)
VEP06333N (NV-G7EO)
RF IN
RF OUT
ANTENNA RF CONVERTER
ENC87786(EG)
ENC87784(EO)
ENC87782(B)
RF AMP
LOCAL OSC
MIXER
TUNER
BT BS BU BV
TNV57451F2(EO/EG)
TNV87452F2(B)
IF
AGC
AFC
DEMODULATOR
VEP07312B(EG)
VEP07312A(EO)
VEP07312D(B)
TP703 TP704 TP705
AUDIO TRAP
T702
DET ADJ
T703
X703
6MHz TRAP
IF FILTER
T701
VIF AMP
RF AGC
AFC DET
CARRIER AMP
AGC DET
SIF PRE AMP
VIDEO AMP
IC701 (BN5115B)
6MHz B.P.F
TP707
NOISE CANCEL
Q702
VR741 HIGH PEAKER
VIDEO AMP
Q703
T751 SIF IN
T704 AFC ADJ
TP706
TP709
T752 SIF DET
X702
SIF FILTER
FM DET
SIF LIMITER
Q761
VR701 UHF AGC
VR702 VHF AGC
VR751
AUDIO LEVEL
IC751 (AN5215)
TO AUDIO CIRCUIT
TO VIDEO CIRCUIT
TO VPS ADAPTOR (ONLY NV-G10, G7 EG)
TP7517
QR7551
BT VL BV BU
BAND SELECT
UHF
VHF-L
VOLTAGE COMPARATOR
IC7551 (AN5033)
RESET
DELAY
L.P.F.
C7555, C7557
VR7502 RESET LEVEL
TP7508
DISPLAY TUBE (VSL0090) NV-G10,G7EG
(VSL0091) EXCEPT NV-G10,G7EG
SP REC CH SUN MON TUE WED THU FRI SAT OTR ON AM PM OFF AM SPM VTR COUNT
14G 13G 12G 11G 9G 8G 7G 6G 5G 4G 3G 2G 1G
IC7501
(MN15261VQY (EXCEPT NV-G10,G7EG)
MN15261VEA (NV-G10,G7EG)
X7502 32KHz
2 X0
3 X1
X7501 4.19MHz
NV-G10,G7EG ONLY
C7502 TIMER OSC
SEG 0 61
SEG 8 53
SEGMENT SIGNALS
DEG 0 52
DEG 1 40
GRID SIGNALS
10 AUDIO DEFEAT
9 AFC DEFEAT
6 UHF (L)
5 VHF-L (L)
QR7502
QR7501
37 TUNING D/A CONV.
19 SERIAL CLOCK
20 SERIAL DATA
34 PD1 (PE1)
33 PD0 (PE2)
NV-G10EG ONLY
IC7502 (MN1220)
C3 C2 C1 OUT PCLR
350μsec
8bit
17.16msec
5.15msec
SERIAL CLOCK
DATA1 2 3 4 5 6 7
1 2 3 4 5 ....
IC7501-21
IC7501-22
IC7501-23
IC7501-24
IC7501-25
IC7501-26
IC7501-27
IC7501-28
15.6msec
SCAN PULSE SIGNALS
KEY MATRIX CIRCUIT
OPERATION C.BOARD (VJB06334)NV-G10, (VJB06350)NV-G7
STOP EJECT REW FF STILL POWER
REC PLAY
NV-G10EG ONLY
SLOW VPS
NV-G10 ONLY
CH UP CH DOWN COUNTER MEMORY COUNTER CLEAR
DAY UP ON UP TIMER SET ON
EXCEPT NV-G10B,NV-G7B
ON DOWN OFF UP OFF DOWN PROGRAM ADJ
TIMER C. BOARD
AFC F UP F DOWN VHF-L UHF PRESET ON
P40 P41 P42 P43 P50 P51 P52 P53
P20 P21 P22 P23 P30 P31 P32 P33
21 P20
22 P21
23 P22
24 P23
25 P30
26 P31
27 P32
28 P33
18 P53
17 P52
16 P51
15 P50
32 P43
31 P42
30 P41
29 P40
RESET 13
IC7504 (MN1280)
REG +6V
FROM REMOTE CONTROLLER
D6204
14 AMP Q7502 Q7503
IC7503 (μPC1373H)
REMOTE CONTROL RECEIVER
T7501 IR FREQ
TIMER FIP C.B.A.
VEP07323A(NV-G10EG)
VEP07300D(NV-G10EO)
VEP07300E(NV-G10B)
VEP07323B(NV-G7EG)
VEP07300F(NV-G7EO)
VEP07300G(NV-G7B)

MODE / IC	P.B	CUE/REV FF/REW	SLOW STILL
IC6001-41	H	H	L
IC6001-40	L	H	L

MODE / SIGNAL	FF/REW POS	EJECT POS	STOP POS	PAUSE POS	REV POS	PLAY POS
POS1	H	H	L	L	L	L
POS2	H	L	L	L	L	H
POS3	L	H	H	H	H	L

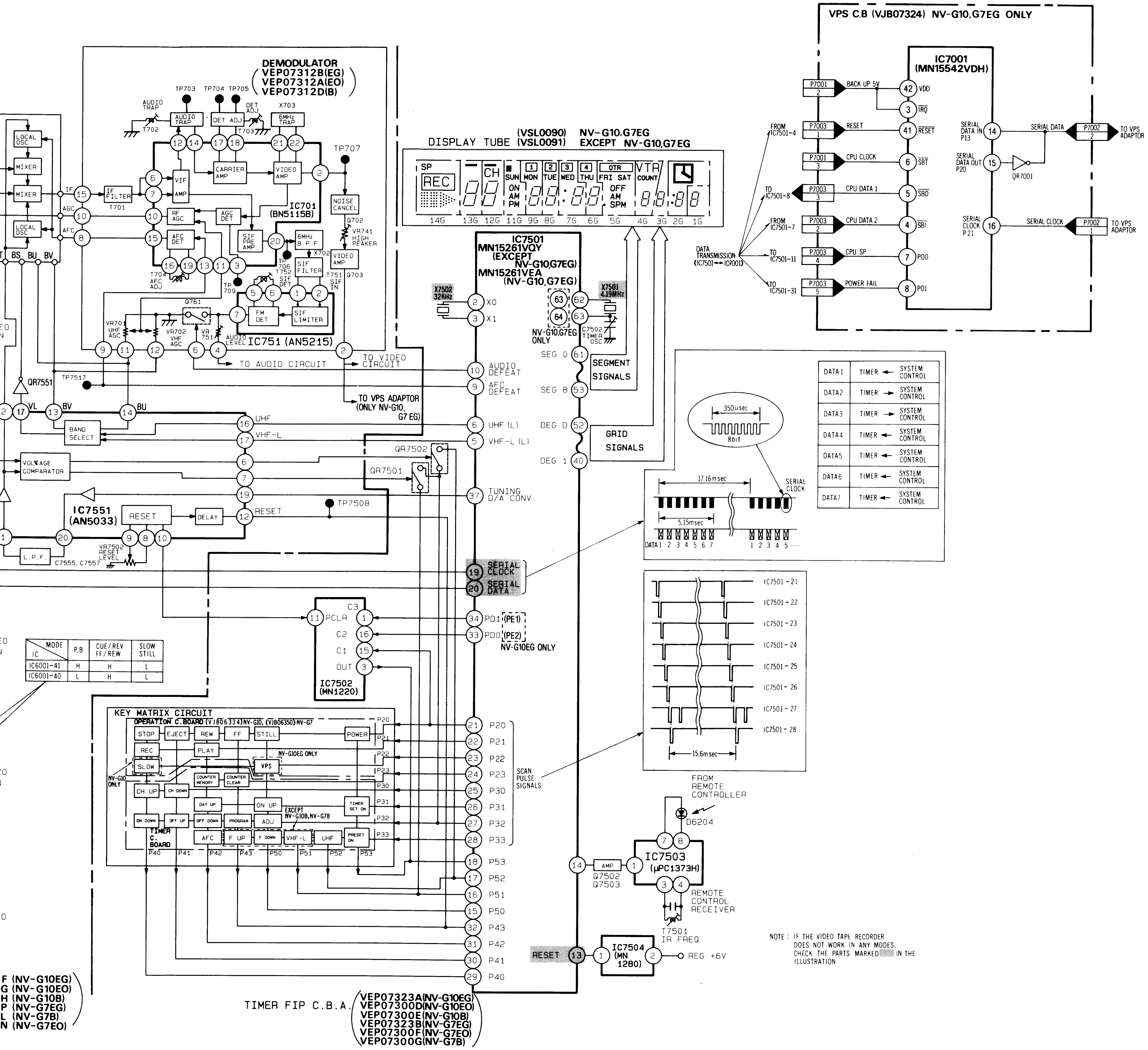
	NO CASSETTE	DURING LOADING	CASSETTE DOWN
CASSETTE SW2	ON	OFF	ON
CASSETTE SW1	ON	OFF	OFF

DATA1	TIMER ← SYSTEM CONTROL
DATA2	TIMER → SYSTEM CONTROL
DATA3	TIMER → SYSTEM CONTROL
DATA4	TIMER ← SYSTEM CONTROL
DATA5	TIMER ← SYSTEM CONTROL
DATA6	TIMER ← SYSTEM CONTROL
DATA7	TIMER ← SYSTEM CONTROL

NOTE : IF THE VIDEO TAPE RECORDER DOES NOT WORK IN ANY MODES, CHECK THE PARTS MARKED ▨ IN THE ILLUSTRATION

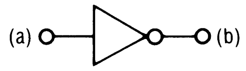
AMS

R BLOCK DIAGRAM


DEMODULATOR
VEP07312B(EG)
VEP07312A(EO)
VEP07312D(B)
TP703 TP704 TP705
AUDIO TRAP
DET ADJ
X703
6MHz TRAP
T702
T703
AUDIO TRAP
DET ADJ
CARRIER AMP
VIDEO AMP
TP707
LOCAL OSC
MIXER
MIXER
LOCAL OSC
IF
AGC
AFC
IF FILTER
T701
VIF
AMP
RF AGC
AGC DET
AFC DET
SIF PRE AMP
6MHz B.P.F
IC701 (BN5115B)
NOISE CANCEL
Q702
VR741 HIGH PEAKER
VIDEO AMP
Q703
X702
T704 AFC ADJ
TP 706
T752 SIF DET
SIF FILTER
T751 SIF IN
TP 709
FM DET
SIF LIMITER
Q761
VR701 UHF AGC
VR702 VHF AGC
VR 751
AUDIO LEVEL
IC751 (AN5215)
TO VIDEO CIRCUIT
TO AUDIO CIRCUIT
TO VPS ADAPTOR (ONLY NV-G10, G7 EG)
BS BU BV
QR7551
TP7517
VL BV BU
BAND SELECT
UHF
VHF-L
VOLTAGE COMPARATOR
IC7551 (AN5033)
RESET
DELAY
RESET
TP7508
L.P.F.
C7555, C7557
VR7502 RESET LEVEL
QR7502
QR7501
DISPLAY TUBE (VSL0090) NV-G10,G7EG
(VSL0091) EXCEPT NV-G10,G7EG
SP REC CH SUN MON TUE WED THU FRI SAT OTR VTR COUNT ON AM PM OFF AM SPM
14G 13G 12G 11G 9G 8G 7G 6G 5G 4G 3G 2G 1G
IC7501 MN15261VQY (EXCEPT NV-G10,G7EG) MN15261VEA (NV-G10,G7EG)
X7502 32KHz
X7501 4.19MHz
XO X1
NV-G10,G7EG ONLY
C7502 TIMER OSC
SEG 0
SEG 8
DEG 0
DEG 1
SEGMENT SIGNALS
GRID SIGNALS
AUDIO DEFEAT
AFC DEFEAT
UHF (L)
VHF-L (L)
TUNING D/A CONV.
SERIAL CLOCK
SERIAL DATA
PD1 (PE1)
PD0 (PE2)
NV-G10EG ONLY
IC7502 (MN1220)
PCLR C3 C2 C1 OUT
MODE IC | P.B | CUE/REV FF/REW | SLOW STILL
IC6001-41 | H | H | L
IC6001-40 | L | H | L
KEY MATRIX CIRCUIT
OPERATION C.BOARD (VJB06334) NV-G10, (VJB06350) NV-G7
STOP EJECT REW FF STILL POWER
REC PLAY
NV-G10EG ONLY
SLOW VPS
NV-G10 ONLY
COUNTER MEMORY
COUNTER CLEAR
CH UP CH DOWN
DAY UP
ON UP
TIMER SET ON
EXCEPT NV-G10B,NV-G7B
ON DOWN OFF UP OFF DOWN PROGRAM ADJ
TIMER C. BOARD
AFC F UP F DOWN VHF-L UHF PRESET ON
P40 P41 P42 P43 P50 P51 P52 P53
P20 P21 P22 P23 P30 P31 P32 P33
SCAN PULSE SIGNALS
P53 P52 P51 P50 P43 P42 P41 P40
RESET
AMP
Q7502 Q7503
IC7503 (μPC1373H)
FROM REMOTE CONTROLLER
D6204
REMOTE CONTROL RECEIVER
T7501 IR FREQ
IC7504 (MN 1280)
REG +6V
TIMER FIP C.B.A.
VEP07323A(NV-G10EG)
VEP07300D(NV-G10EO)
VEP07300E(NV-G10B)
VEP07323B(NV-G7EG)
VEP07300F(NV-G7EO)
VEP07300G(NV-G7B)
F (NV-G10EG)
G (NV-G10EO)
H (NV-G10B)
P (NV-G7EG)
L (NV-G7B)
N (NV-G7EO)
350μsec
8bit
17.16msec
SERIAL CLOCK
5.15msec
DATA 1 2 3 4 5 6 7
1 2 3 4 5 ....
DATA1 TIMER ← SYSTEM CONTROL
DATA2 TIMER → SYSTEM CONTROL
DATA3 TIMER → SYSTEM CONTROL
DATA4 TIMER ← SYSTEM CONTROL
DATA5 TIMER ← SYSTEM CONTROL
DATA6 TIMER ← SYSTEM CONTROL
DATA7 TIMER ← SYSTEM CONTROL
IC7501-21
IC7501-22
IC7501-23
IC7501-24
IC7501-25
IC7501-26
IC7501-27
IC7501-28
15.6msec
VPS C.B (VJB07324) NV-G10,G7EG ONLY
IC7001 (MN15542VDH)
P7001 BACK UP 5V
FROM IC7501-4
P7003 RESET
P7001 CPU CLOCK
TO IC7501-8
P7003 CPU DATA 1
FROM IC7501-7
P7003 CPU DATA 2
DATA TRANSMISSION (IC7501↔IC7001)
TO IC7501-11
P7003 CPU SP
TO IC7501-31
P7003 POWER FAIL
VDD IRQ RESET SBT SBO SBI PO0 PO1
SERIAL DATA IN P13
SERIAL DATA OUT P20
SERIAL CLOCK P21
QR7001
SERIAL DATA
SERIAL CLOCK
P7002
TO VPS ADAPTOR
TO VPS ADAPTOR
NOTE : IF THE VIDEO TAPE RECORDER DOES NOT WORK IN ANY MODES, CHECK THE PARTS MARKED IN THE ILLUSTRATION

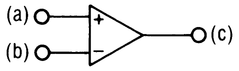
SYMBOL	TRUTH VALUE TABLE

INVERTER



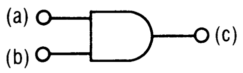
IN	(a)	H	L
OUT	(b)	L	H

COMPARATOR



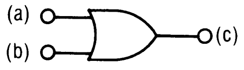
IN	(a) (b)	(a)>(b)	(a)<(b)
OUT	(c)	H	L

AND CIRCUIT



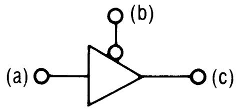
IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	H	H	H

OR CIRCUIT



IN	(a)	L	L	H	H
	(b)	L	H	L	H
OUT	(c)	L	L	L	H

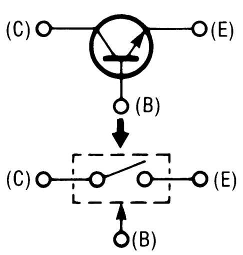
THREE STATES BUFFER



IN	(a)	H	L	H or L
	(b)	L	L	H
OUT	(c)	H	L	※

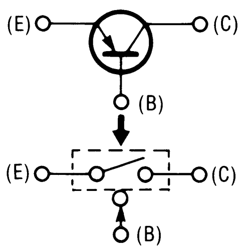
※ High Impedance

TR. SW (NPN TYPE)



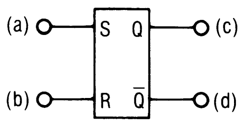
BASE	H	L
TR. SW	ON	OFF

TR. SW (PNP TYPE)



BASE	H	L
TR. SW	OFF	ON

R-S TYPE FLIP-FLOP

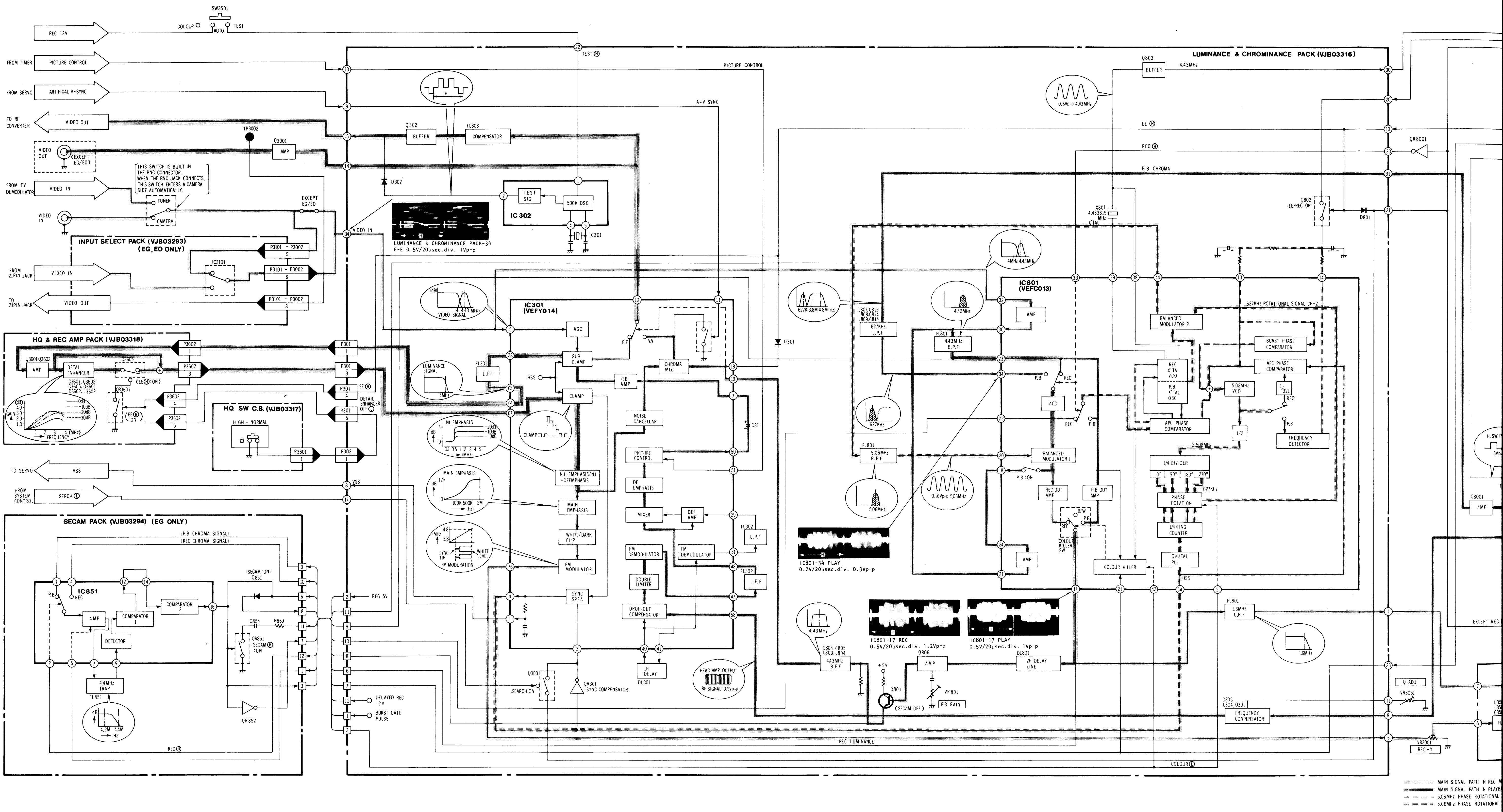


IN	(a)	L	L	⎍
	(b)	L	⎍	L
OUT	(c)	※	L	H
	(d)	◆	H	L

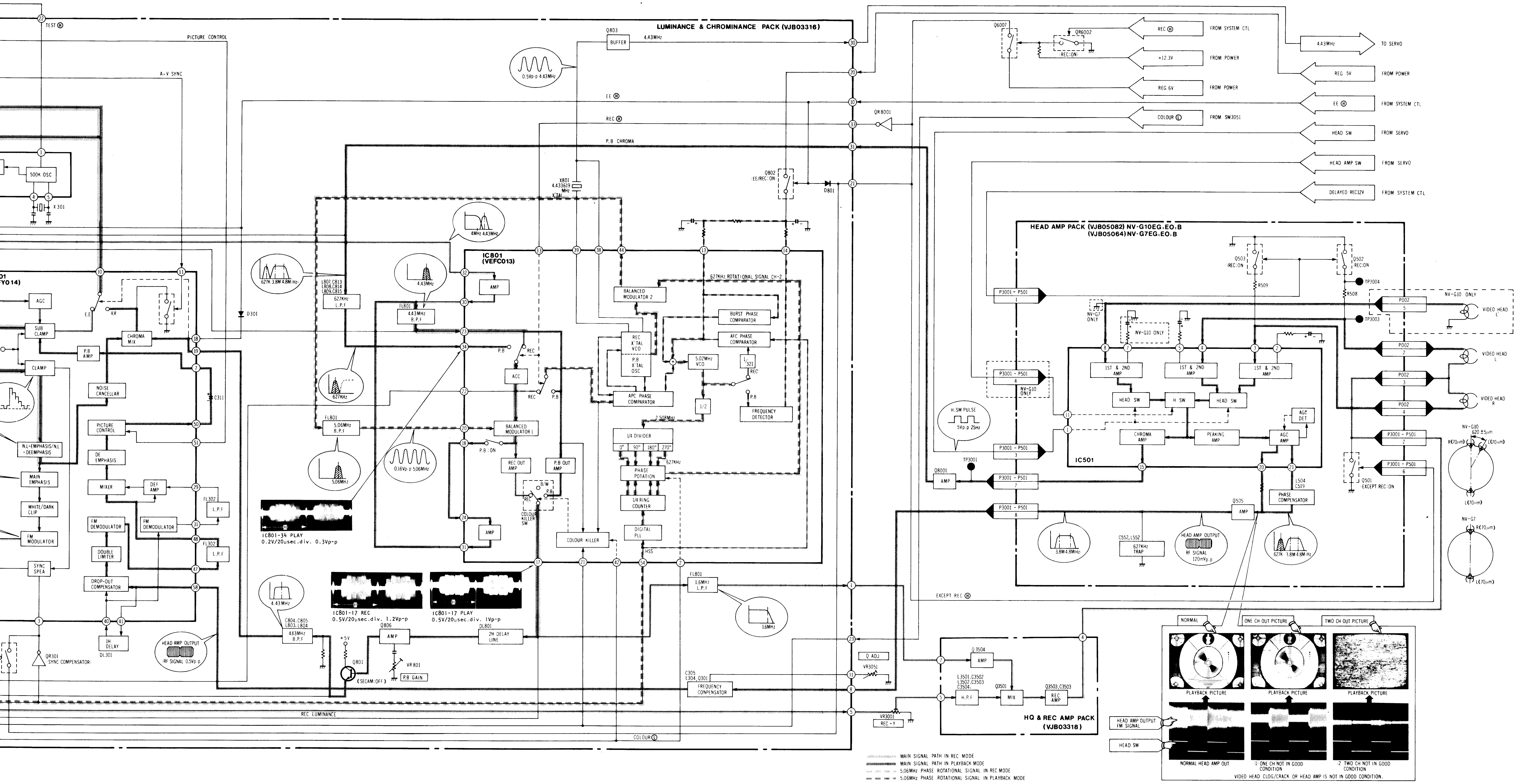
※ Initial condition is maintained.
◆ Initial condition is reverced.

Next Page:
SERVO Section

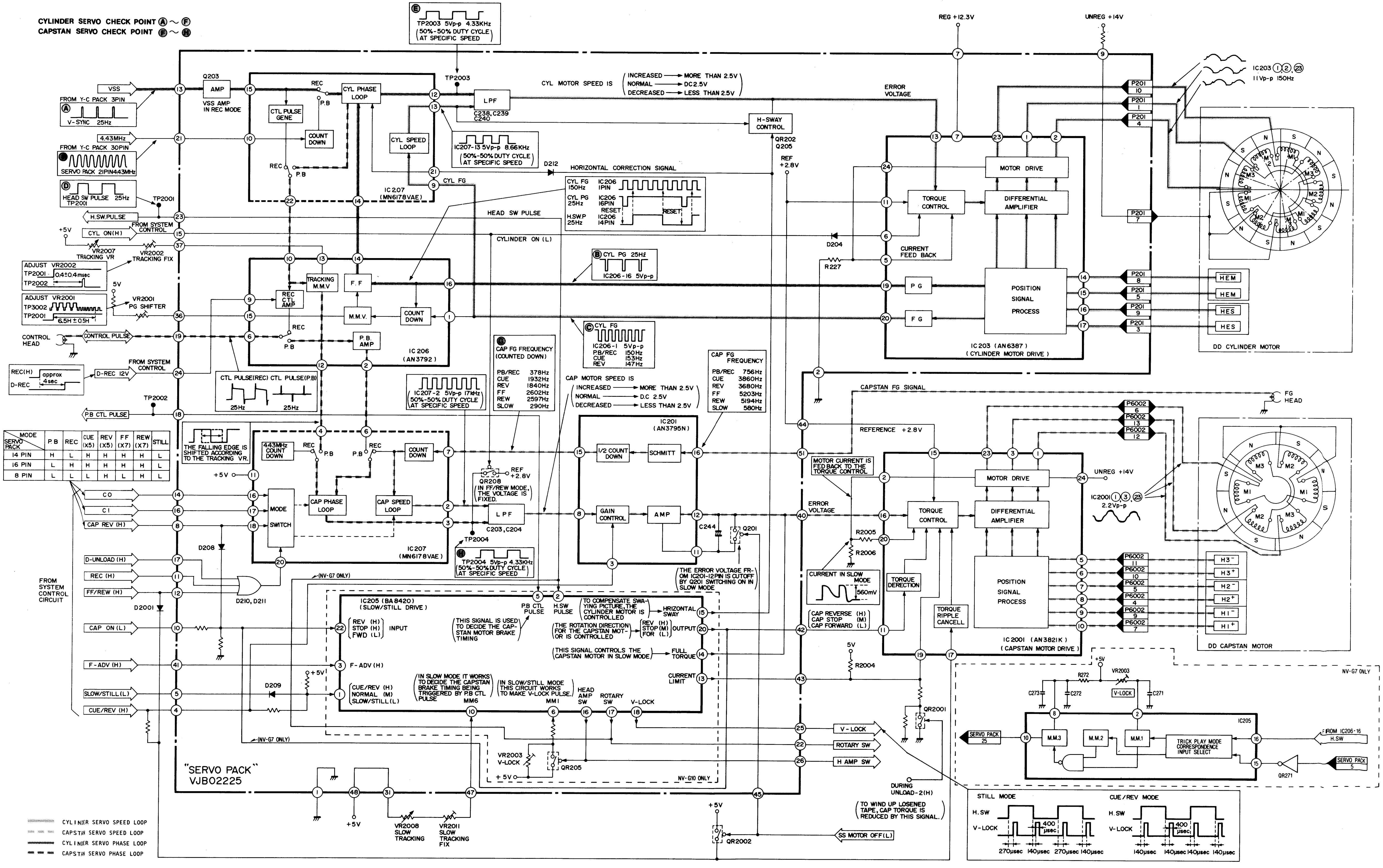
3-2. LUMINANCE & CHROMINANCE BLOCK DIAGRAM


SW3501
COLOUR
AUTO
TEST
REC 12V
FROM TIMER
PICTURE CONTROL
FROM SERVO
ARTIFICAL V-SYNC
TO RF CONVERTER
VIDEO OUT
VIDEO OUT
(EXCEPT EG/EO)
FROM TV DEMODULATOR
VIDEO IN
VIDEO IN
TP3002
Q3001
AMP
THIS SWITCH IS BUILT IN THE BNC CONNECTOR. WHEN THE BNC JACK CONNECTS, THIS SWITCH ENTERS A CAMERA SIDE AUTOMATICALLY.
TUNER
CAMERA
EXCEPT EG/EO
INPUT SELECT PACK (VJB03293) (EG, EO ONLY)
IC3101
P3101 - P3002
FROM 21PIN JACK
TO 21PIN JACK
HQ & REC AMP PACK (VJB03318)
Q3601,Q3602
DETAIL ENHANCER
Q3605
C3601, C3602 C3605, D3601 D3602, L3602
(EE Ⓗ :ON)
Q3601
P3602
GAIN
FREQUENCY
(MHz)
HQ SW C.B. (VJB03317)
HIGH - NORMAL
P3601
P301
P302
EE Ⓗ
DETAIL ENHANCER OFF Ⓛ
TO SERVO
VSS
FROM SYSTEM CONTROL
SERCH Ⓛ
SECAM PACK (VJB03294) (EG ONLY)
(P.B CHROMA SIGNAL)
(REC CHROMA SIGNAL)
IC851
P.B
REC
AMP
COMPARATOR 1
COMPARATOR 2
DETECTOR
4.4MHz TRAP
FL851
4.2M 4.4M (Hz)
(SECAM:ON) Q851
C854
R859
QR851 (SECAM Ⓗ :ON)
QR852
REC Ⓗ
REG 5V
DELAYED REC 12V
BURST GATE PULSE
TEST Ⓗ
PICTURE CONTROL
A-V SYNC
Q302
BUFFER
FL303
COMPENSATOR
D302
TEST SIG
500K OSC
IC 302
X 301
VIDEO IN
LUMINANCE & CHROMINANCE PACK-34
E-E 0.5V/20μsec.div. 1Vp-p
IC301 (VEFY014)
VIDEO SIGNAL
4.43(MHz)
LUMINANCE SIGNAL
4MHz
FL301
L.P.F
AGC
SUB CLAMP
HSS
CLAMP
E.E
V.V
CHROMA MIX
P.B AMP
NOISE CANCELLAR
PICTURE CONTROL
DE EMPHASIS
MIXER
DEF AMP
FM DEMODULATOR
FM DEMODULATOR
DOUBLE LIMITER
DROP-OUT COMPENSATOR
1H DELAY
DL301
N.L EMPHASIS
N.L-EMPHASIS/N.L-DEEMPHASIS
MAIN EMPHASIS
WHITE/DARK CLIP
FM MODULATOR
SYNC SPEA
SYNC TIP
WHITE LEVEL
FM MODURATION
C311
FL302
L.P.F
Q303
(SEARCH:ON)
QR301 SYNC COMPENSATOR
HEAD AMP OUTPUT (RF SIGNAL 0.5Vp-p)
D301
LUMINANCE & CHROMINANCE PACK (VJB03316)
Q803
BUFFER
4.43MHz
0.5Vp-p 4.43MHz
EE Ⓗ
REC Ⓗ
P.B CHROMA
QR8001
X801 4.433619 MHz X'TAL
Q802 (EE/REC:ON)
D801
627K 3.8M 4.8M(Hz)
L807, C813 L808, C814 L809, C815
627KHz L.P.F
627KHz
4MHz 4.43MHz
IC801 (VEFC013)
AMP
FL801
4.43MHz B.P.F
4.43MHz
ACC
BALANCED MODULATOR 1
BALANCED MODULATOR 2
REC OUT AMP
P.B OUT AMP
B/W
COLOUR KILLER SW
COLOUR KILLER
FL801
5.06MHz B.P.F
5.06MHz
0.16Vp-p 5.06MHz
IC801-34 PLAY
0.2V/20μsec.div. 0.3Vp-p
627KHz ROTATIONAL SIGNAL CH-2
BURST PHASE COMPARATOR
AFC PHASE COMPARATOR
REC X'TAL VCO
P.B X'TAL OSC
APC PHASE COMPARATOR
5.02MHz VCO
1/321
1/2
FREQUENCY DETECTOR
2.508MHz
1/4 DIVIDER
0° 90° 180° 270°
PHASE ROTATION
1/4 RING COUNTER
DIGITAL PLL
HSS
C804, C805 L803, L804
443MHz B.P.F
IC801-17 REC
0.5V/20μsec.div. 1.2Vp-p
IC801-17 PLAY
0.5V/20μsec.div. 1Vp-p
Q806
AMP
DL801
2H DELAY LINE
+5V
Q801
(SECAM:OFF)
VR801
P.B GAIN
FL801
1.6MHz L.P.F
1.6MHz
C305 L304, Q301
FREQUENCY COMPENSATOR
REC LUMINANCE
COLOUR Ⓛ
Q8001
AMP
EXCEPT REC
Q ADJ
VR3051
VR3001
REC - Y
H.SW
MAIN SIGNAL PATH IN REC M
MAIN SIGNAL PATH IN PLAYB
5.06MHz PHASE ROTATIONAL
5.06MHz PHASE ROTATIONAL

MC-Service


LUMINANCE & CHROMINANCE PACK (VJB03316)
TEST Ⓗ
PICTURE CONTROL
A-V SYNC
Q803
BUFFER
4.43MHz
0.5Vp-p 4.43MHz
EE Ⓗ
REC Ⓗ
P.B CHROMA
X801 4.433619 MHz X'TAL
500K OSC
X301
AGC
SUB CLAMP
CLAMP
P.B AMP
CHROMA MIX
NOISE CANCELLAR
PICTURE CONTROL
DE EMPHASIS
N.L-EMPHASIS/N.L-DEEMPHASIS
MAIN EMPHASIS
WHITE/DARK CLIP
FM MODULATOR
SYNC SPEA
MIXER
DEF AMP
FM DEMODULATOR
DOUBLE LIMITER
DROP-OUT COMPENSATOR
1H DELAY
DL301
QR301 SYNC COMPENSATOR
HEAD AMP OUTPUT RF SIGNAL 0.5Vp-p
D301
C311
FL302 L.P.F
627K 3.8M 4.8MHz
L807, C813 L808, C814 L809, C815
627KHz L.P.F
627KHz
FL801 5.06MHz B.P.F
5.06MHz
IC801 (VEFC013)
4.43MHz
FL801 4.43MHz B.P.F
AMP
4MHz 4.43MHz
ACC
BALANCED MODULATOR 1
BALANCED MODULATOR 2
0.16Vp-p 5.06MHz
REC OUT AMP
P.B OUT AMP
P.B : ON
B/W
COLOUR KILLER SW
COLOUR KILLER
REC X TAL VCO
P.B X TAL OSC
APC PHASE COMPARATOR
BURST PHASE COMPARATOR
AFC PHASE COMPARATOR
5.02MHz VCO
1/321
FREQUENCY DETECTOR
627KHz ROTATIONAL SIGNAL CH-2
2.508MHz
1/4 DIVIDER
0° 90° 180° 270°
627KHz
PHASE ROTATION
1/4 RING COUNTER
DIGITAL PLL
HSS
IC801-34 PLAY 0.2V/20μsec.div. 0.3Vp-p
IC801-17 REC 0.5V/20μsec.div. 1.2Vp-p
IC801-17 PLAY 0.5V/20μsec.div. 1Vp-p
4.43MHz
C804, C805 L803, L804 443MHz B.P.F
Q806 AMP
DL801 2H DELAY LINE
+5V Q801 (SECAM:OFF)
VR801 P.B GAIN
FL801 1.6MHz L.P.F
1.6MHz
C305 L304, Q301 FREQUENCY CONPENSATOR
REC LUMINANCE
COLOUR Ⓛ
Q802 EE/REC:ON
D801
QR8001
Q6007
QR6002
REC:ON
REC Ⓗ FROM SYSTEM CTL
+12.3V FROM POWER
REG 6V FROM POWER
COLOUR Ⓛ FROM SW3051
4.43MHz TO SERVO
REG 5V FROM POWER
EE Ⓗ FROM SYSTEM CTL
HEAD SW FROM SERVO
HEAD AMP SW FROM SERVO
DELAYED REC12V FROM SYSTEM CTL
HEAD AMP PACK (VJB05082) NV-G10EG.EO.B (VJB05064) NV-G7EG.EO.B
Q503 REC:ON
Q502 REC:ON
R509
R508
TP3004
TP3003
P3001 - P501
P002
NV-G10 ONLY
VIDEO HEAD L
VIDEO HEAD R
NV-G7 ONLY
NV-G10 ONLY
1ST & 2ND AMP
HEAD SW
H SW
AGC DET
CHROMA AMP
PEAKING AMP
AGC AMP
IC501
H.SW PULSE 5Vp-p 25Hz
TP3001
Q8001 AMP
L504 C519 PHASE COMPENSATOR
Q505 AMP
Q501 EXCEPT REC:ON
NV-G10 620 ±5μm R(70μm) L(70μm)
NV-G7 R(70μm) L(70μm)
3.8M 4.8MHz
C552, L552 627KHz TRAP
HEAD AMP OUTPUT RF SIGNAL 120mVp-p
627K 3.8M 4.8MHz
EXCEPT REC Ⓗ
Q ADJ
VR3051
VR3001 REC-Y
Q3504 AMP
L3501, C3502 L3502, C3503 C3504 H.P.F
Q3501 MIX
Q3503, C3503 REC AMP
HQ & REC AMP PACK (VJB03318)
NORMAL
ONE CH OUT PICTURE
TWO CH OUT PICTURE
PLAYBACK PICTURE
HEAD AMP OUTPUT FM SIGNAL
HEAD SW
NORMAL HEAD AMP OUT
1. ONE CH NOT IN GOOD CONDITION
2. TWO CH NOT IN GOOD CONDITION
VIDEO HEAD CLOG/CRACK OR HEAD AMP IS NOT IN GOOD CONDITION.
MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN REC MODE
5.06MHz PHASE ROTATIONAL SIGNAL IN PLAYBACK MODE

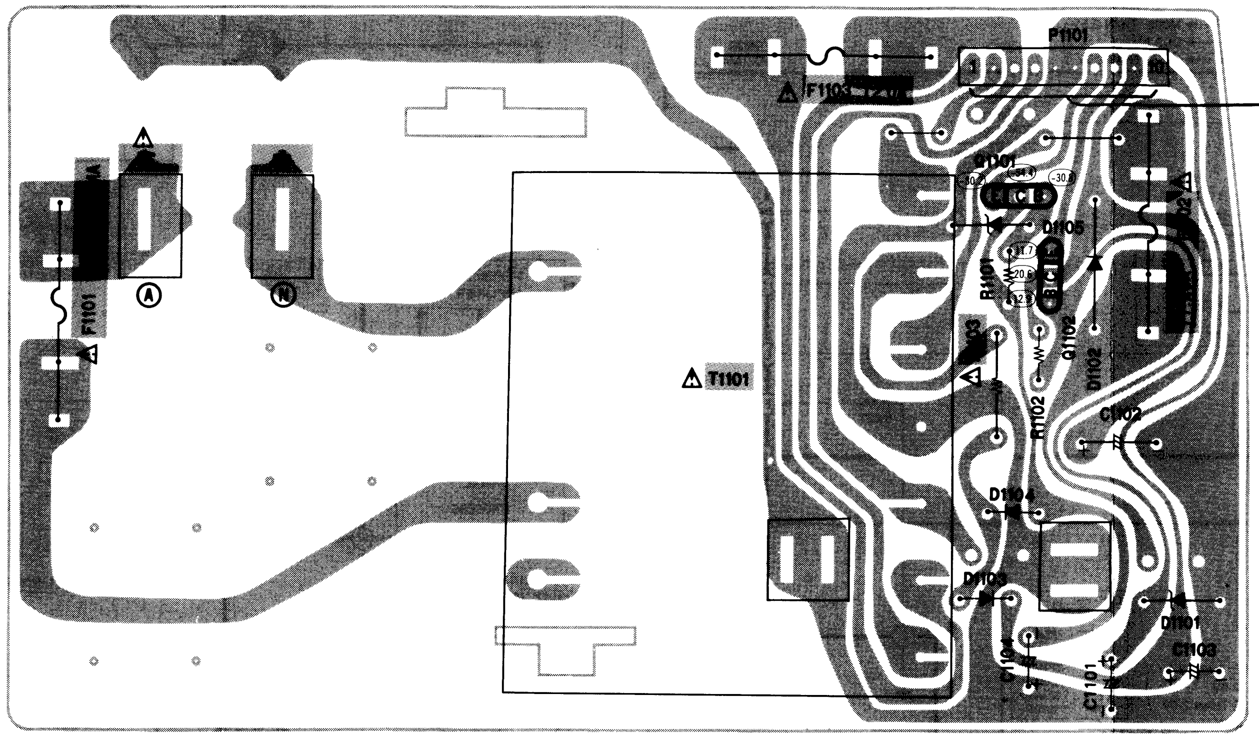
3-3. SERVO BLOCK DIAGRAM


CYLINDER SERVO CHECK POINT Ⓐ ~ Ⓕ
CAPSTAN SERVO CHECK POINT Ⓕ ~ Ⓗ
TP2003 5Vp-p 4.33KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
REG +12.3V
UNREG +14V
IC203 ①②㉓ 11Vp-p 150Hz
VSS
FROM Y-C PACK 3PIN
V-SYNC 25Hz
4.43MHz
FROM Y-C PACK 30PIN
SERVO PACK 21PIN4.43MHz
HEAD SW PULSE 25Hz TP2001
TP2001
H.SW.PULSE
FROM SYSTEM CONTROL
CYL ON(H)
VR2007 TRACKING VR
VR2002 TRACKING FIX
ADJUST VR2002
TP2001 0.4±0.4msec
TP2002
ADJUST VR2001
TP3002
TP2001 6.5H ± 0.5H
VR2001 PG SHIFTER
CONTROL HEAD
CONTROL PULSE
REC(H) approx 4sec D-REC
D-REC 12V
TP2002
P.B CTL PULSE
Q203
AMP
VSS AMP IN REC MODE
CTL PULSE GENE
COUNT DOWN
CYL PHASE LOOP
CYL SPEED LOOP
IC207 (MN6178VAE)
TP2003
LPF
C238, C239 C240
IC207-13 5Vp-p 8.66KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
CYL MOTOR SPEED IS (INCREASED → MORE THAN 2.5V, NORMAL → DC2.5V, DECREASED → LESS THAN 2.5V)
D212
HORIZONTAL CORRECTION SIGNAL
H-SWAY CONTROL
QR202 Q205
REF +2.8V
ERROR VOLTAGE
CYL FG
CYL FG 150Hz IC206 1PIN
CYL PG 25Hz IC206 16PIN RESET
H.SWP 25Hz IC206 14PIN
HEAD SW PULSE
CYLINDER ON (L)
Ⓑ CYL PG 25Hz IC206-16 5Vp-p
TRACKING M.M.V
F.F
REC CTL AMP
M.M.V.
COUNT DOWN
P.B. AMP
IC206 (AN3792)
Ⓒ CYL FG IC206-1 5Vp-p PB/REC 150Hz CUE 153Hz REV 147Hz
CTL PULSE(REC) CTL PULSE(P.B) 25Hz 25Hz
IC207-2 5Vp-p 17KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
Ⓖ CAP FG FREQUENCY (COUNTED DOWN) PB/REC 378Hz CUE 1932Hz REV 1840Hz FF 2602Hz REW 2597Hz SLOW 290Hz
CAP MOTOR SPEED IS (INCREASED → MORE THAN 2.5V, NORMAL → D.C 2.5V, DECREASED → LESS THAN 2.5V)
CAP FG FREQUENCY PB/REC 756Hz CUE 3860Hz REV 3680Hz FF 5203Hz REW 5194Hz SLOW 580Hz
THE FALLING EDGE IS SHIFTED ACCORDING TO THE TRACKING VR.
443MHz COUNT DOWN
CAP PHASE LOOP
CAP SPEED LOOP
MODE SWITCH
QR208 REF +2.8V (IN FF/REW MODE, THE VOLTAGE IS FIXED.)
C203, C204
TP2004
Ⓗ TP2004 5Vp-p 4.33KHz (50%-50% DUTY CYCLE AT SPECIFIC SPEED)
IC201 (AN3795N)
1/2 COUNT DOWN
SCHMITT
GAIN CONTROL
AMP
C244
Q201
(THE ERROR VOLTAGE FROM IC201-12PIN IS CUTOFF BY Q201 SWITCHING ON IN SLOW MODE)
CO
CI
CAP REV (H)
D208
D-UNLOAD (H)
REC (H)
FF/REW (H)
D210, D211
FROM SYSTEM CONTROL CIRCUIT
D2001
CAP ON (L)
F-ADV (H)
SLOW/STILL (L)
CUE/REV (H)
D209
(NV-G7 ONLY)
IC205 (BA8420) (SLOW/STILL DRIVE)
REV (H) STOP (H) FWD (L) INPUT
F-ADV (H)
CUE/REV (H) NORMAL (M) SLOW/STILL (L)
P.B CTL PULSE
H.SW PULSE
(THIS SIGNAL IS USED TO DECIDE THE CAPSTAN MOTOR BRAKE TIMING)
(TO COMPENSATE SWAYING PICTURE, THE CYLINDER MOTOR IS CONTROLLED) → HRIZONTAL SWAY
(THE ROTATION DIRECTION FOR THE CAPSTAN MOTOR IS CONTROLLED) → REV (H) STOP (M) FOR (L) OUTPUT
(THIS SIGNAL CONTROLS THE CAPSTAN MOTOR IN SLOW MODE) → FULL TORQUE
CURRENT LIMIT
(IN SLOW MODE IT WORKS TO DECIDE THE CAPSTAN BRAKE TIMING BEING TRIGGERED BY P.B CTL PULSE) MM6
(IN SLOW/STILL MODE THIS CIRCUIT WORKS TO MAKE V-LOCK PULSE.) MM1
HEAD AMP SW
ROTARY SW
V-LOCK
VR2003 V-LOCK
QR205
NV-G10 ONLY
"SERVO PACK" VJB02225
VR2008 SLOW TRACKING
VR2011 SLOW TRACKING FIX
+5V
QR2002
SS MOTOR OFF (L)
V-LOCK
ROTARY SW
H AMP SW
DURING UNLOAD-2(H)
(TO WIND UP LOOSENED TAPE, CAP TORQUE IS REDUCED BY THIS SIGNAL.)
D204
R227
CURRENT FEED BACK
TORQUE CONTROL
MOTOR DRIVE
DIFFERENTIAL AMPLIFIER
P G
F G
POSITION SIGNAL PROCESS
IC203 (AN6387) (CYLINDER MOTOR DRIVE)
P201
HEM
HES
DD CYLINDER MOTOR
FG HEAD
CAPSTAN FG SIGNAL
REFERENCE +2.8V
MOTOR CURRENT IS FED BACK TO THE TORQUE CONTROL
P6002
ERROR VOLTAGE
R2005
R2006
CURRENT IN SLOW MODE 560mV
TORQUE DERECTION
TORQUE RIPPLE CANCELL
CAP REVERSE (H) CAP STOP (M) CAP FORWARD (L)
5V R2004
QR2001
UNREG +14V
IC2001 ①③㉓ 2.2Vp-p
IC2001 (AN3821K) (CAPSTAN MOTOR DRIVE)
H3⁻ H3⁺ H2⁻ H2⁺ H1⁻ H1⁺
DD CAPSTAN MOTOR
N S M1 M2 M3
NV-G7 ONLY
R272 VR2003 C273 C272 C271 V-LOCK
IC205
M.M.3 M.M.2 M.M.1
TRICK PLAY MODE CORRESPONDENCE INPUT SELECT
FROM IC206-16 H.SW
SERVO PACK 25
SERVO PACK 5
QR271
STILL MODE H.SW V-LOCK 400μsec 270μsec 140μsec 270μsec 140μsec
CUE/REV MODE H.SW V-LOCK 400μsec 140μsec 140μsec 140μsec
CYLINDER SERVO SPEED LOOP
CAPSTAN SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
CAPSTAN SERVO PHASE LOOP

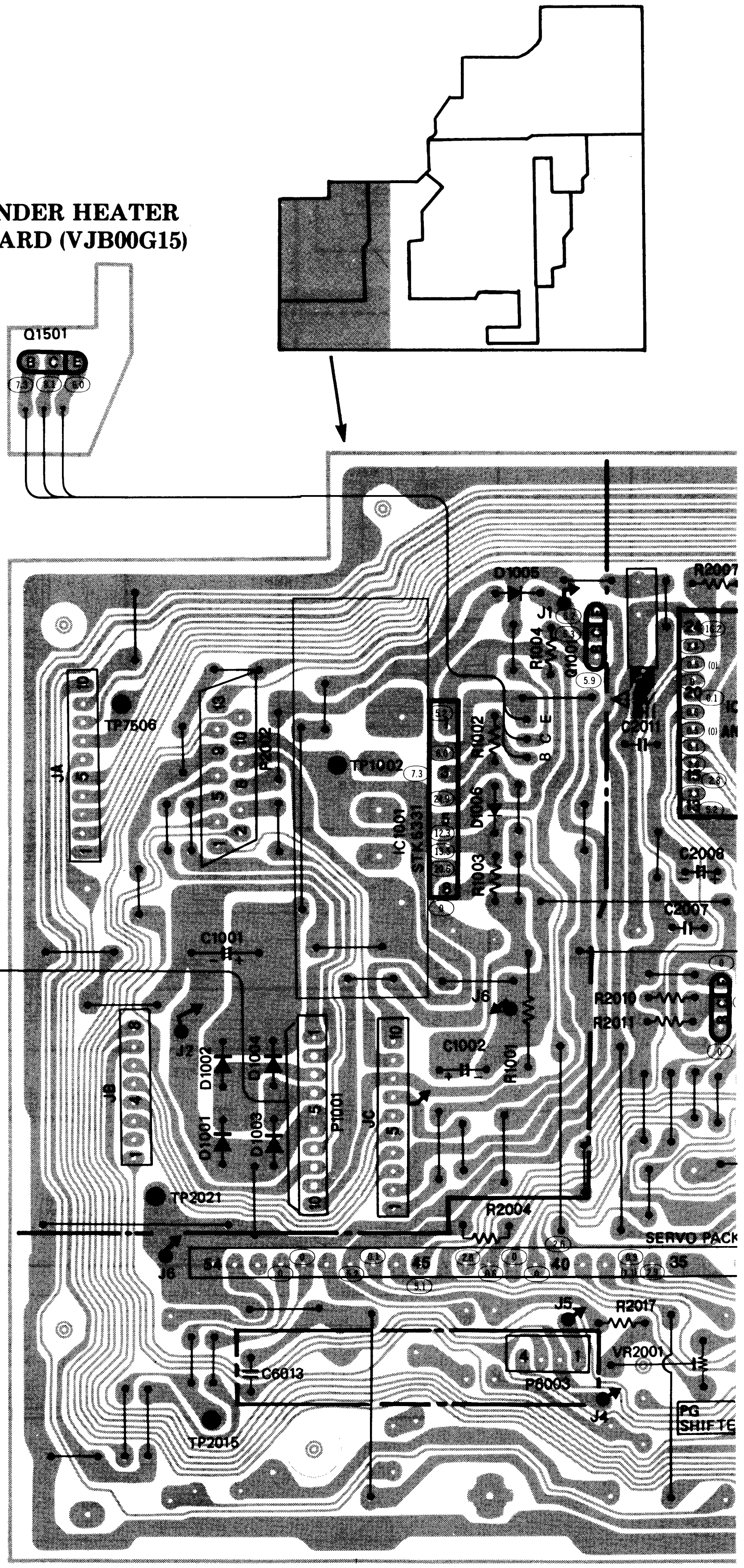
MODE / SERVO PACK	P.B	REC	CUE (X5)	REV (X5)	FF (X7)	REW (X7)	STILL
14 PIN	H	L	H	H	H	H	L
16 PIN	L	H	H	H	H	H	L
8 PIN	L	L	L	H	L	H	L

3-4. POWER TRANSFORMER (VEP01213A: NV-G10, G7EG) (VEP01212A: NV-G10, G7B/EO) & POWER SUPPLY Section In Main Circuit Board (VEP06333F: NV-G10EG) (VEP06333H: NV-G10B) (VEP06333G: NV-G10EO) (VEP06333P: NV-G7EG) (VEP06333L: NV-G7B) (VEP06333N: NV-G7EO)

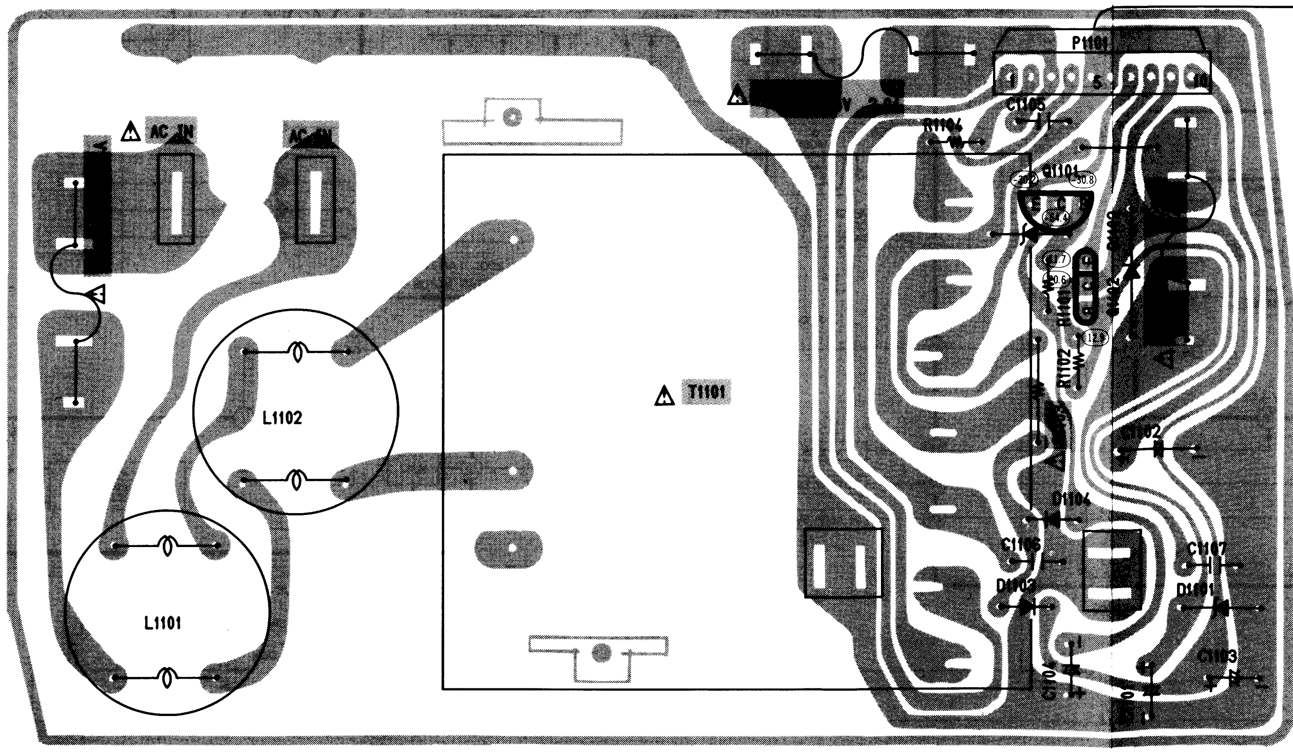
POWER TRANSFORMER C. BOARD (VEP01212A: NV-G10, G7B/EO)


P1101
F1103
Q1101
D1105
R1101
D1103
Q1102
D1102
R1102
C1102
D1104
D1106
D1101
C1103
C1104
C1101
F1101
A
N
T1101

CYLINDER HEATER C. BOARD (VJB00G15)

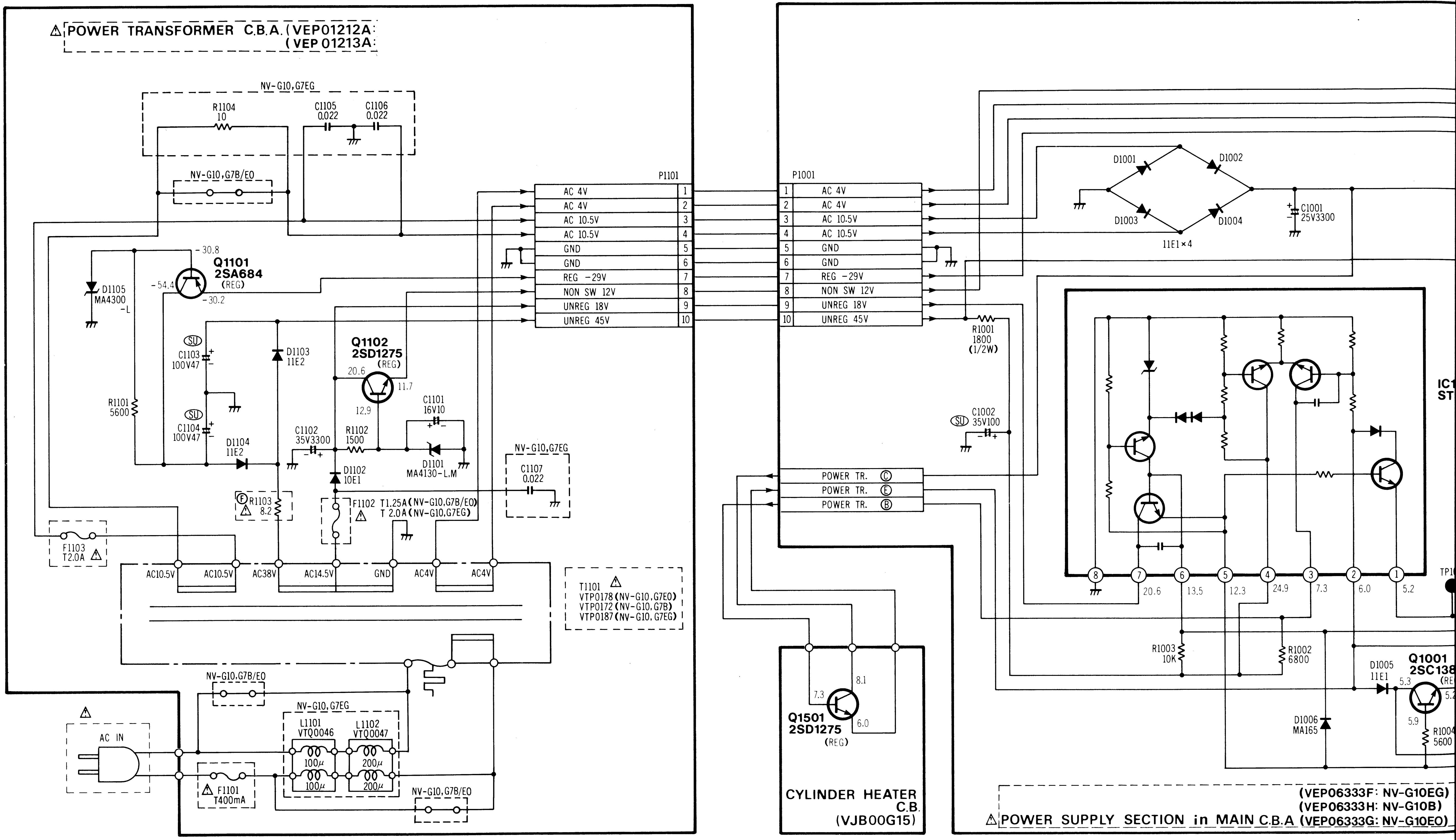

Q1501
E C B
D1005
R2007
R1004
Q1001
TP7506
JA
TP1002
IC1001
STK5331
R1002
R1003
C2001
C2006
C2007
C1001
J6
R2010
R2011
J7
D1002
D1004
D1001
D1003
JB
P1001
JC
C1002
R1001
TP2021
R2004
SERVO PACK
J6
40
35
J5
R2017
C6013
P6003
VR2001
J4
TP2016
PG SHIFTER

POWER TRANSFORMER C. BOARD (VEP01213A:


P1101
AC IN
AC IN
C1105
R1104
Q1101
D1103
R1101
R1102
C1102
D1104
C1106
D1102
C1107
D1101
C1103
C1101
L1102
L1101
T1101

Back Page:
SERVO Section

3-5. POWER TRANSFORMER & POWER SUPPLY SCHEMATIC DIAGRAM

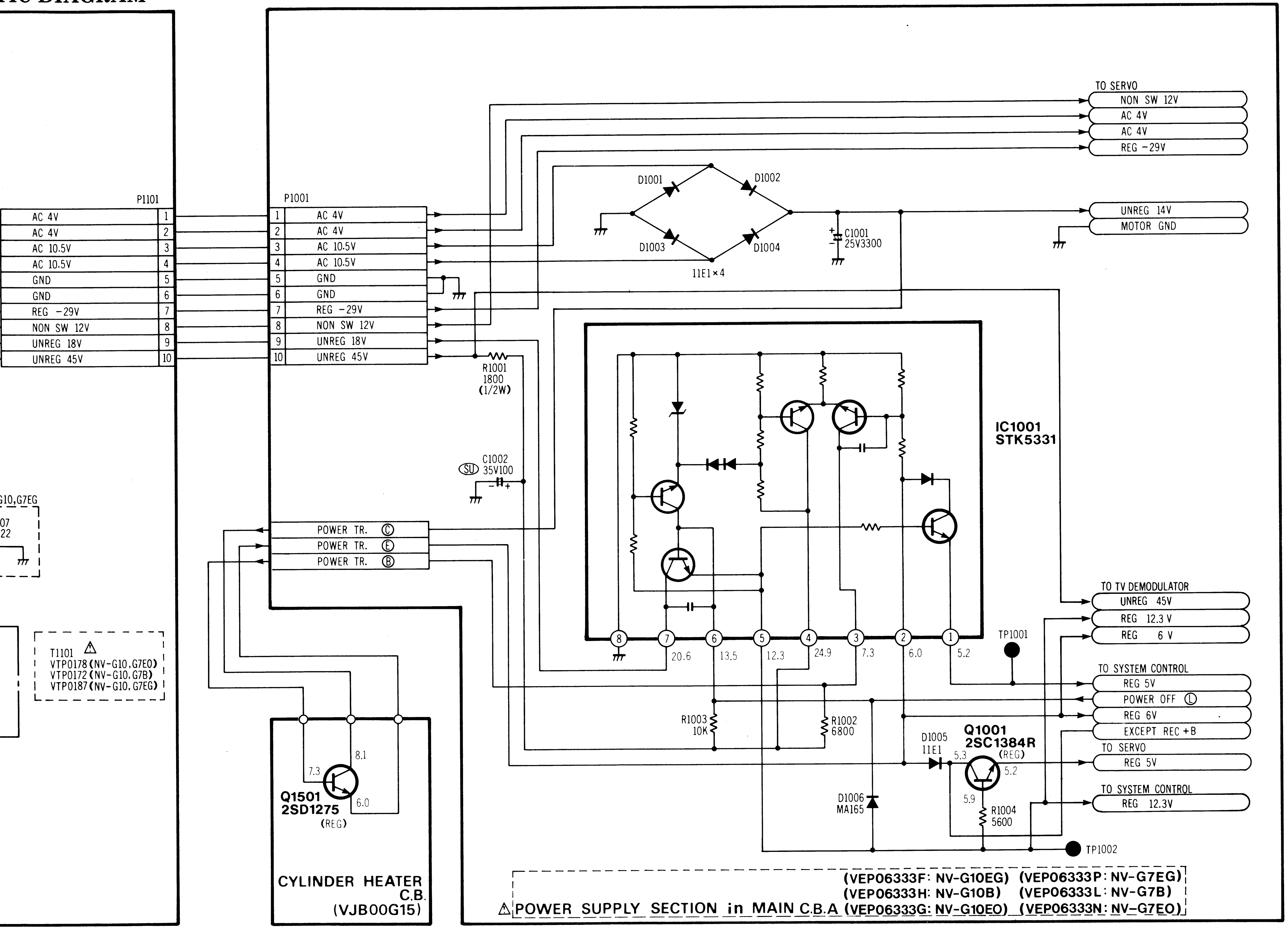

POWER TRANSFORMER C.B.A. (VEP01212A
(VEP 01213A
NV-G10, G7EG
R1104 10
C1105 0.022
C1106 0.022
NV-G10, G7B/EO
P1101
AC 4V
AC 4V
AC 10.5V
AC 10.5V
GND
GND
REG -29V
NON SW 12V
UNREG 18V
UNREG 45V
-30.8
Q1101 2SA684 (REG)
-54.4
-30.2
D1105 MA4300-L
C1103 100V47
C1104 100V47
R1101 5600
D1103 11E2
D1104 11E2
Q1102 2SD1275 (REG)
20.6
11.7
12.9
C1101 16V10
C1102 35V3300
R1102 1500
D1101 MA4130-L.M
D1102 10E1
R1103 8.2
F1102 T1.25A (NV-G10, G7B/EO) T 2.0A (NV-G10, G7EG)
NV-G10, G7EG
C1107 0.022
F1103 T2.0A
AC10.5V
AC10.5V
AC38V
AC14.5V
GND
AC4V
AC4V
T1101
VTP0178 (NV-G10, G7EO)
VTP0172 (NV-G10, G7B)
VTP0187 (NV-G10, G7EG)
AC IN
NV-G10, G7B/EO
NV-G10, G7EG
L1101 VTQ0046
L1102 VTQ0047
100μ
100μ
200μ
200μ
F1101 T400mA
NV-G10, G7B/EO
P1001
D1001
D1002
D1003
D1004
11E1×4
C1001 25V3300
R1001 1800 (1/2W)
C1002 35V100
POWER TR. Ⓒ
POWER TR. Ⓔ
POWER TR. Ⓑ
IC1
ST
TP1
20.6
13.5
12.3
24.9
7.3
6.0
5.2
R1003 10K
R1002 6800
D1005 11E1
5.3
Q1001 2SC138
(RE
5.2
5.9
R1004 5600
D1006 MA165
7.3
8.1
6.0
Q1501 2SD1275 (REG)
CYLINDER HEATER C.B. (VJB00G15)
(VEP06333F: NV-G10EG)
(VEP06333H: NV-G10B)
POWER SUPPLY SECTION in MAIN C.B.A (VEP06333G: NV-G10EO)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

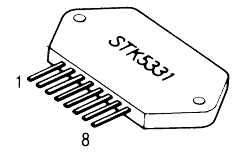
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

NOTE: DO NOT USE THE PART
THE CORRECT PART N
SLIGHTLY DIFFERENT

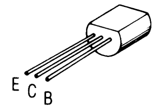
TIC DIAGRAM


P1101
AC 4V 1
AC 4V 2
AC 10.5V 3
AC 10.5V 4
GND 5
GND 6
REG −29V 7
NON SW 12V 8
UNREG 18V 9
UNREG 45V 10
P1001
1 AC 4V
2 AC 4V
3 AC 10.5V
4 AC 10.5V
5 GND
6 GND
7 REG −29V
8 NON SW 12V
9 UNREG 18V
10 UNREG 45V
TO SERVO
NON SW 12V
AC 4V
AC 4V
REG −29V
D1001
D1002
D1003
D1004
11E1×4
C1001
25V3300
UNREG 14V
MOTOR GND
R1001
1800
(1/2W)
C1002
SU 35V100
IC1001
STK5331
8
7 20.6
6 13.5
5 12.3
4 24.9
3 7.3
2 6.0
1 5.2
TP1001
POWER TR. Ⓒ
POWER TR. Ⓔ
POWER TR. Ⓑ
…10,G7EG
…07
…22
T1101 ⚠
VTP0178 (NV-G10,G7EO)
VTP0172 (NV-G10,G7B)
VTP0187 (NV-G10,G7EG)
TO TV DEMODULATOR
UNREG 45V
REG 12.3 V
REG 6 V
TO SYSTEM CONTROL
REG 5V
POWER OFF Ⓛ
REG 6V
EXCEPT REC +B
TO SERVO
REG 5V
TO SYSTEM CONTROL
REG 12.3V
R1003
10K
R1002
6800
D1005
11E1
5.3
Q1001
2SC1384R
(REG)
5.2
5.9
R1004
5600
D1006
MA165
TP1002
8.1
7.3
6.0
Q1501
2SD1275
(REG)
CYLINDER HEATER C.B.
(VJB00G15)
(VEP06333F: NV-G10EG) (VEP06333P: NV-G7EG)
(VEP06333H: NV-G10B) (VEP06333L: NV-G7B)
⚠ POWER SUPPLY SECTION in MAIN C.B.A (VEP06333G: NV-G10EO) (VEP06333N: NV-G7EO)

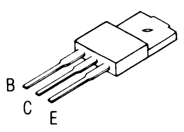
ICs & TRANSISTORs INFORMATION



STK5331



2SC1384
2SA684



2SD1275

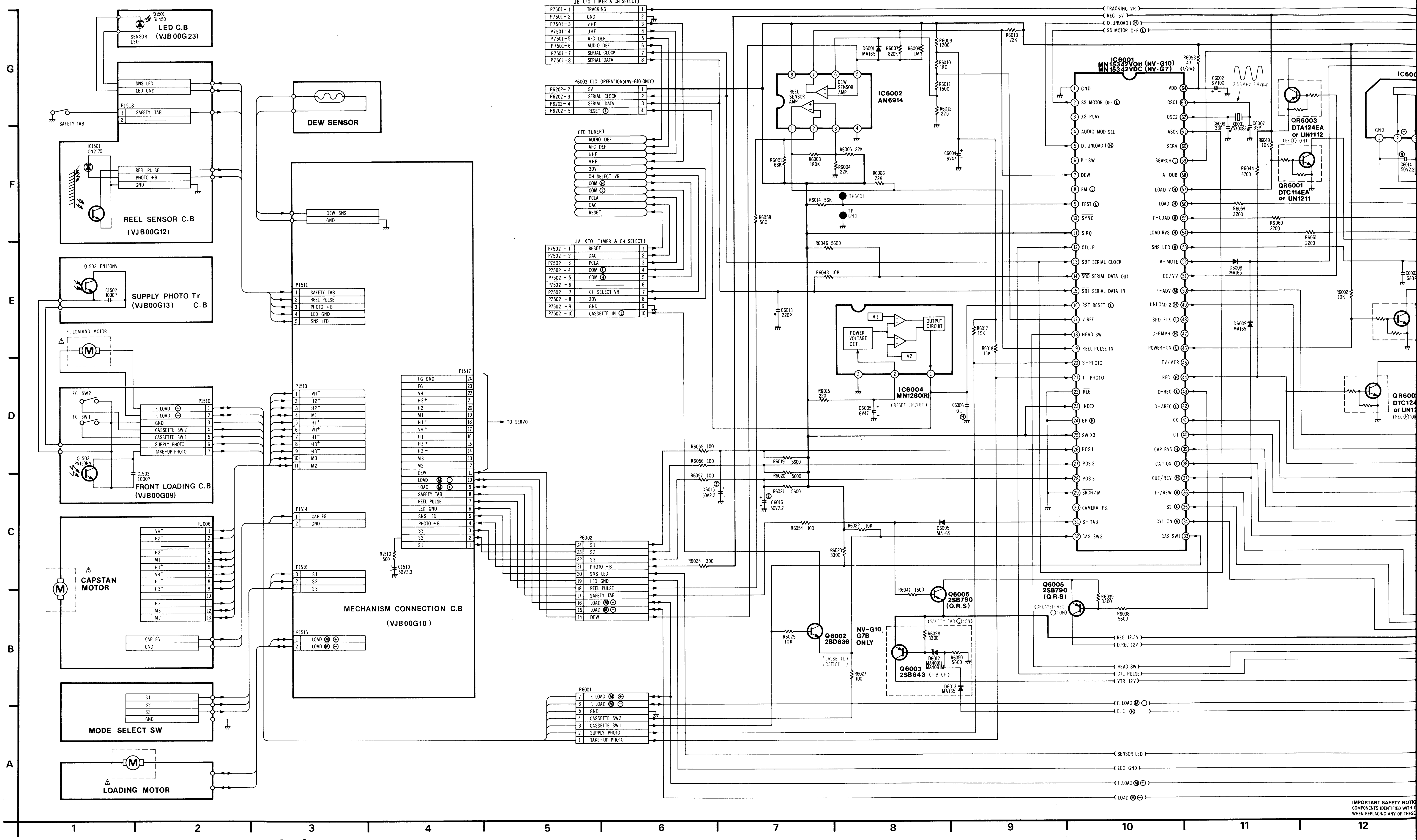
EMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

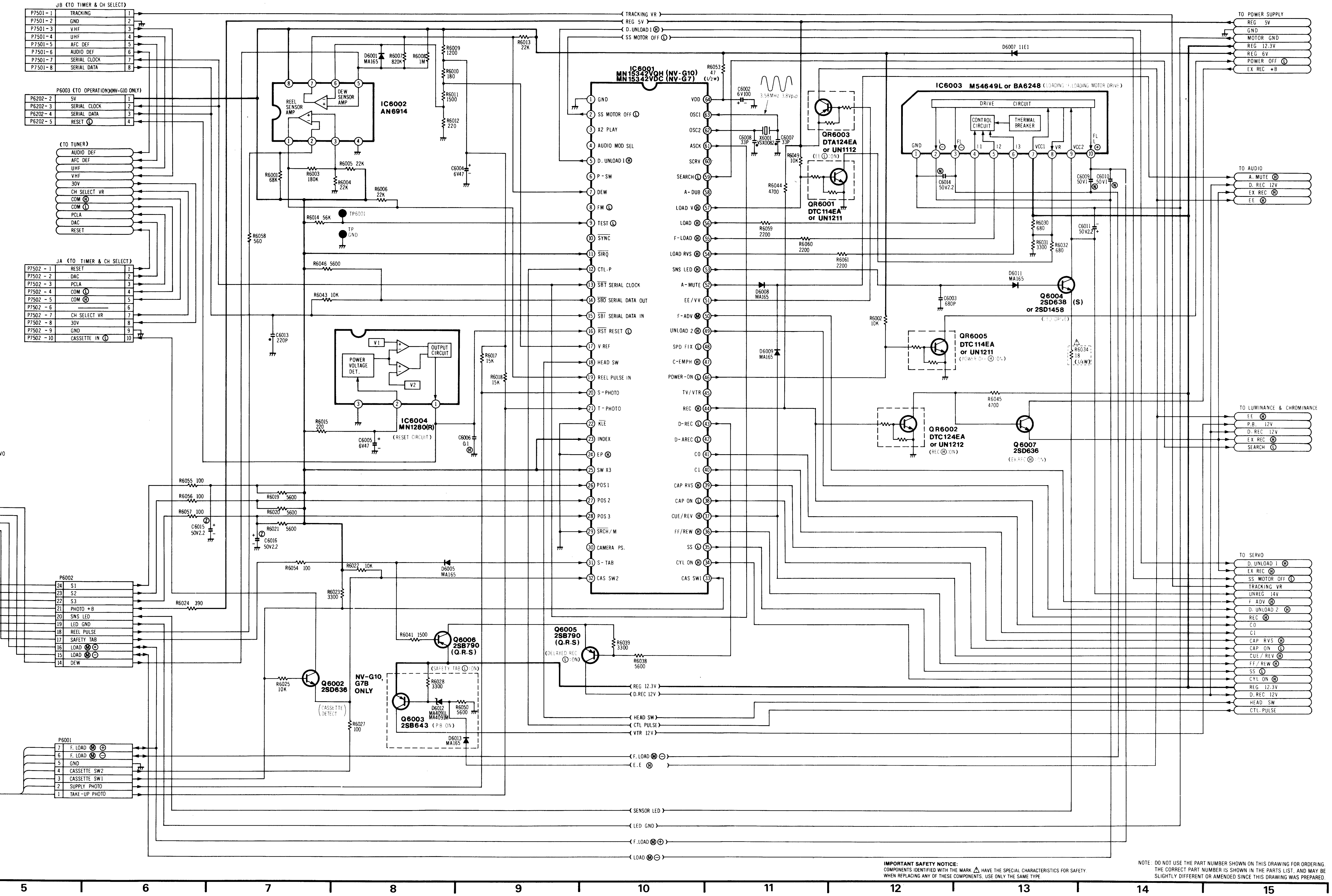
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

Next Page:
SYSTEM CONTROL Section

3-6. SYSTEM CONTROL SCHEMATIC DIAGRAM



LED C.B (VJB00G23)
D1501 GL450
SENSOR LED
SAFETY TAB
P1518
SNS LED
LED GND
IC1501 ON2170
REEL PULSE
PHOTO +B
GND
REEL SENSOR C.B (VJB00G12)
Q1502 PN150NV
C1502 1000P
SUPPLY PHOTO Tr (VJB00G13) C.B
F. LOADING MOTOR
FC SW2
FC SW1
P1510
F. LOAD ⊕
F. LOAD ⊖
CASSETTE SW 2
CASSETTE SW 1
SUPPLY PHOTO
TAKE-UP PHOTO
Q1503 PN150NV
C1503 1000P
FRONT LOADING C.B (VJB00G09)
PJ006
CAPSTAN MOTOR
VH⁻
H2⁺
H2⁻
M1
H1⁺
VH⁺
H1⁻
H3⁺
H3⁻
M3
M2
CAP FG
MODE SELECT SW
S1
S2
S3
LOADING MOTOR
DEW SENSOR
DEW SNS
P1511
SAFETY TAB
LED GND
SNS LED
P1513
P1514
P1516
P1515
LOAD ⊕
LOAD ⊖
P1517
FG GND
FG
DEW
LOAD Ⓜ⊖
LOAD Ⓜ⊕
TO SERVO
R1510 560
C1510 50V3.3
MECHANISM CONNECTION C.B (VJB00G10)
JB (TO TIMER & CH SELECT)
P7501-1 TRACKING
P7501-2 GND
P7501-3 VHF
P7501-4 UHF
P7501-5 AFC DEF
P7501-6 AUDIO DEF
P7501-7 SERIAL CLOCK
P7501-8 SERIAL DATA
P6003 (TO OPERATION)(NV-G10 ONLY)
P6202-2 5V
P6202-3 SERIAL CLOCK
P6202-4 SERIAL DATA
P6202-5 RESET Ⓛ
(TO TUNER)
AUDIO DEF
AFC DEF
UHF
VHF
30V
CH SELECT VR
COM Ⓗ
COM Ⓛ
PCLA
DAC
RESET
JA (TO TIMER & CH SELECT)
P7502-1 RESET
P7502-2 DAC
P7502-3 PCLA
P7502-4 COM Ⓛ
P7502-5 COM Ⓗ
P7502-6
P7502-7 CH SELECT VR
P7502-8 30V
P7502-9 GND
P7502-10 CASSETTE IN Ⓛ
P6002
PHOTO +B
SNS LED
LED GND
REEL PULSE
SAFETY TAB
LOAD Ⓜ⊕
LOAD Ⓜ⊖
DEW
P6001
F. LOAD Ⓜ⊕
F. LOAD Ⓜ⊖
GND
CASSETTE SW2
CASSETTE SW1
SUPPLY PHOTO
TAKE-UP PHOTO
IC6002 AN6914
REEL SENSOR AMP
DEW SENSOR AMP
D6001 MA165
R6007 820K
R6008 1M
R6009 1200
R6010 180
R6011 1500
R6012 220
R6001 68K
R6003 180K
R6005 22K
R6004 22K
R6006 22K
C6004 6V47
R6013 22K
R6014 56K
TP6001
TP GND
R6058 560
R6046 5600
R6043 10K
C6013 220P
IC6004 MN1280(R)
POWER VOLTAGE DET.
OUTPUT CIRCUIT
V1
V2
(RESET CIRCUIT)
R6017 15K
R6018 15K
R6015 220
C6005 6V47
C6006 0.1
R6055 100
R6056 100
R6057 100
C6015 50V2.2
R6019 5600
R6020 5600
R6021 5600
C6016 50V2.2
R6054 100
R6022 10K
D6005 MA165
R6023 3300
R6024 390
R6041 1500
Q6006 2SB790 (Q.R.S)
Q6002 2SD636
(CASSETTE DETECT)
R6025 10K
R6027 100
NV-G10, G7B ONLY
(SAFETY TAB Ⓛ ON)
R6028 3300
D6012 MA4091L MA4091M
R6050 5600
Q6003 2SB643 (PB ON)
D6013 MA165
Q6005 2SB790 (Q.R.S)
(DELAYED REC Ⓛ ON)
R6039 3300
R6038 5600
IC6001 MN15342VQH (NV-G10) MN15342VDC (NV-G7)
GND
SS MOTOR OFF Ⓛ
X2 PLAY
AUDIO MOD SEL
D. UNLOAD 1 Ⓗ
P-SW
DEW
FM Ⓛ
TEST Ⓛ
SYNC
SIRQ
CTL-P
SBT SERIAL CLOCK
SBO SERIAL DATA OUT
SBI SERIAL DATA IN
RST RESET Ⓛ
V REF
HEAD SW
REEL PULSE IN
S-PHOTO
T-PHOTO
KLE
INDEX
EP Ⓗ
SW X3
POS 1
POS 2
POS 3
SRCH/M
CAMERA PS.
S-TAB
CAS SW2
VDD
OSC1
OSC2
ASCK
SCRV
SEARCH Ⓛ
A-DUB
LOAD V Ⓛ
LOAD Ⓗ
F-LOAD Ⓗ
LOAD RVS Ⓗ
SNS LED Ⓗ
A-MUTE
EE/VV
F-ADV Ⓜ
UNLOAD 2 Ⓗ
SPD FIX Ⓛ
C-EMPH Ⓗ
POWER-ON Ⓛ
TV/VTR
REC Ⓗ
D-REC Ⓛ
D-AREC Ⓛ
C0
C1
CAP RVS Ⓗ
CAP ON Ⓛ
CUE/REV Ⓗ
FF/REW Ⓗ
SS Ⓛ
CYL ON Ⓗ
CAS SW1
R6053 47 (1/2W)
C6002 6V100
3.58MHz 3.8Vp-p
C6008 33P
X6001 VSX0082
C6007 33P
R6049 10K
R6044 4700
R6059 2200
R6060 2200
R6061 2200
D6008 MA165
D6009 MA165
R6002 10K
QR6003 DTA124EA or UN1112
(EE Ⓛ ON)
QR6001 DTC114EA or UN1211
C6014 50V2.2
C6001 680P
QR600
DTC124
or UN12
(REC Ⓗ ON)
IC600
GND
TRACKING VR
REG 5V
D. UNLOAD 1 Ⓗ
SS MOTOR OFF Ⓛ
REG 12.3V
D.REC 12V
HEAD SW
CTL PULSE
VTR 12V
F. LOAD Ⓜ⊖
E.E Ⓗ
SENSOR LED
LED GND
F.LOAD Ⓜ⊕
LOAD Ⓜ⊖
A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
11
12
IMPORTANT SAFETY NOTIC
COMPONENTS IDENTIFIED WITH T
WHEN REPLACING ANY OF THESE


JB (TO TIMER & CH SELECT)
P6003 (TO OPERATION)(NV-G10 ONLY)
(TO TUNER)
JA (TO TIMER & CH SELECT)
P6002
P6001
IC6001 MN15342VQH (NV-G10) MN15342VDC (NV-G7)
IC6002 AN6914
IC6003 M54649L or BA6248 (LOADING, F.LOADING MOTOR DRIVE)
IC6004 MN1280(R) (RESET CIRCUIT)
QR6001 DTC114EA or UN1211
QR6002 DTC124EA or UN1212
QR6003 DTA124EA or UN1112
QR6005 DTC114EA or UN1211
Q6002 2SD636
Q6003 2SB643
Q6004 2SD638 (S) or 2SD1458
Q6005 2SB790 (Q.R.S)
Q6006 2SB790 (Q.R.S)
Q6007 2SD636
NV-G10, G7B ONLY
TO POWER SUPPLY
TO AUDIO
TO LUMINANCE & CHROMINANCE
TO SERVO
TP6001
TP GND
5
6
7
8
9
10
11
12
13
14
15

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

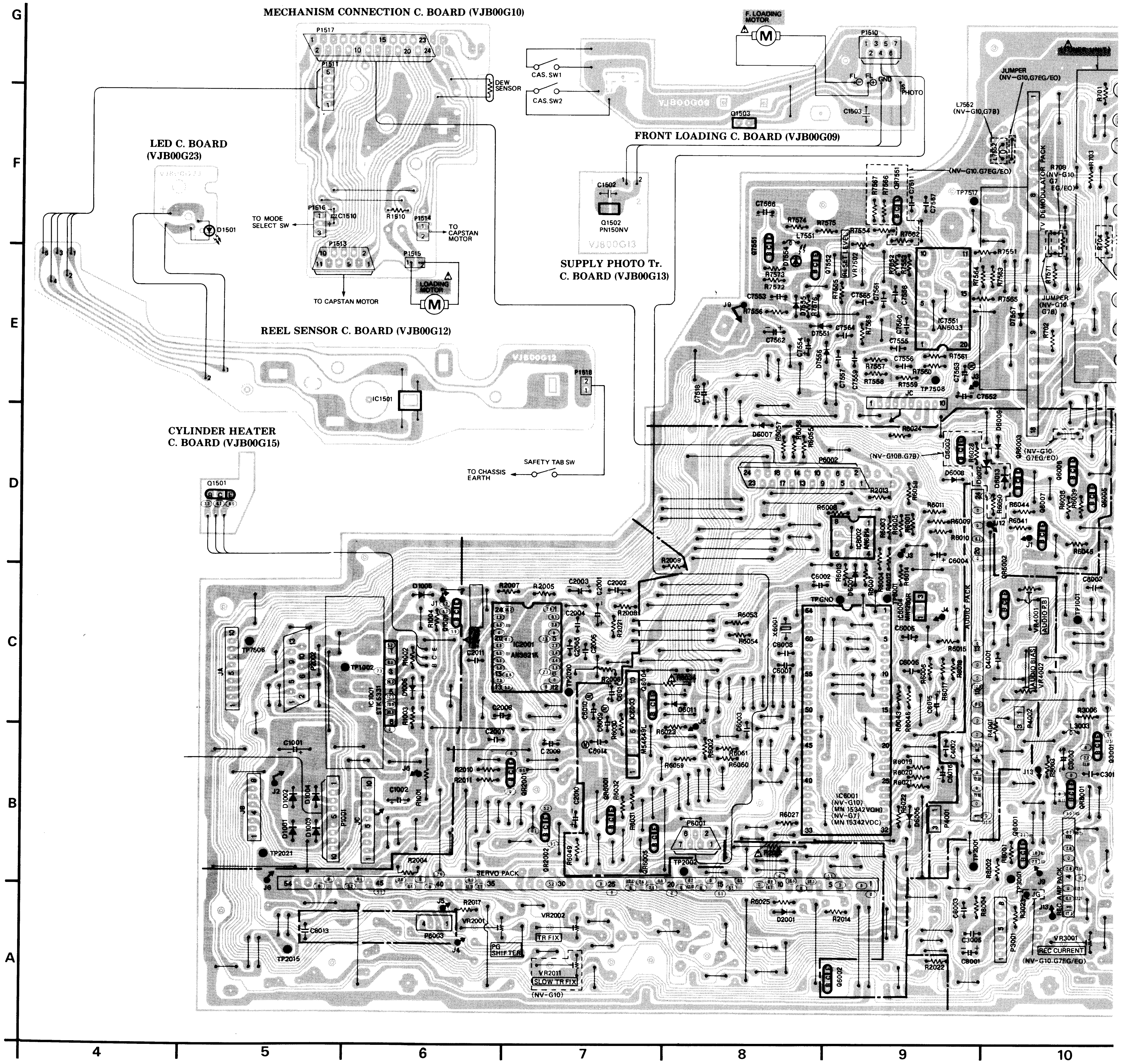
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

SYSTEM CONTROL SCHEMATIC

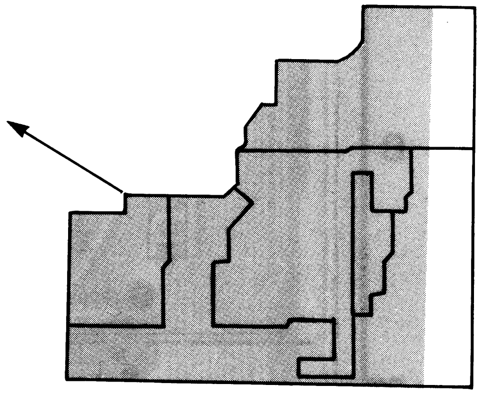
Transistor	
Q1502	E-1
Q1503	D-1
Q6002	B-7
Q6003	B-8
Q6004	E-13
Q6005	C-9
Q6006	B-9
Q6007	D-13
Transistor & Resistor	
QR6001	F-11
QR6002	D-12
QR6003	G-11
QR6005	E-13
Integrated Circuit	
IC1501	F-1
IC6001	G-10
IC6002	G-8
IC6003	G-12
IC6004	D-8
Test Point	
TP6001	F-8
TP GND	F-8
Connector	
PJ006	C-2
P1510	D-2
P1511	E-3
P1513	D-3
P1514	C-3
P1515	B-3
P1516	C-3
P1517	D-4
P1518	G-1
P6001	B-5
P6002	C-5
P6003	G-5
JA	E-5
JB	G-5

ADDRESS INFORMATION

3-7. SYSTEM CONTROL SECTION In Main Circuit Board (VEP06333F: NV-G10EG) (VEP06333H: NV-G10B) (VEP06333G: NV-G10EO) (VEP06333P: NV-G7EG) (VEP06333L: NV-G7B) (VEP06333N: NV-G7EO)



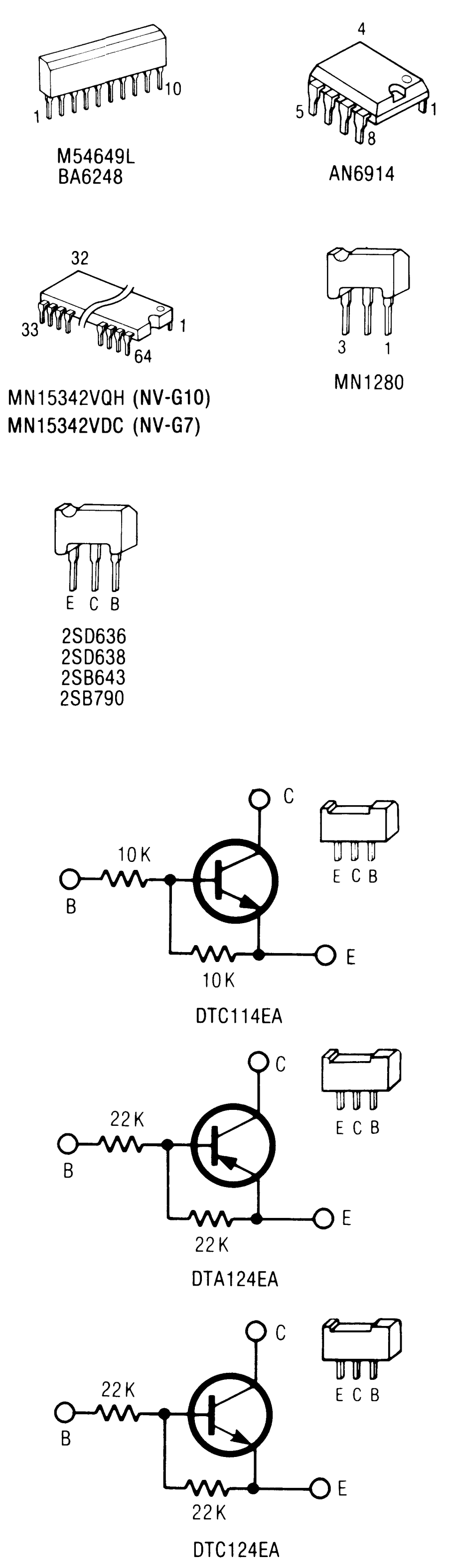
G
F
E
D
C
B
A
4
5
6
7
8
9
10
MECHANISM CONNECTION C. BOARD (VJB00G10)
P1517
P1511
DEW SENSOR
CAS. SW1
CAS. SW2
F. LOADING MOTOR
P1510
FL
GND
PHOTO
Q1503
C1503
FRONT LOADING C. BOARD (VJB00G09)
LED C. BOARD (VJB00G23)
D1501
TO MODE SELECT SW
P1516
C1510
R1510
P1514
TO CAPSTAN MOTOR
P1513
P1515
LOADING MOTOR
TO CAPSTAN MOTOR
C1502
Q1502 PN150NV
SUPPLY PHOTO Tr. C. BOARD (VJB00G13)
REEL SENSOR C. BOARD (VJB00G12)
IC1501
P1518
CYLINDER HEATER C. BOARD (VJB00G15)
Q1501
SAFETY TAB SW
TO CHASSIS EARTH
JUMPER (NV-G10,G7EG/EO)
L7562 (NV-G10,G7B)
TV DEMODULATOR PACK
IC7551 AN5033
RESET LEVEL VR7502
P6002
IC6002
IC2001 AN3821K
IC1501 STK6331
SERVO PACK
AUDIO PACK
AUDIO PB
AUDIO BIAS
IC6001 (NV-G10) (MN 15342VQH) (NV-G7) (MN 15342VDC)
P6001
TP2021
TP2015
TP7606
TP1002
TP2020
TP6001
TP GND
TP7508
TP7517
TR FIX
PG SHIFTER
VR2011 SLOW TR FIX (NV-G10)
VR3001 REC CURRENT (NV-G10,G7EG/EO)
REC AMP PACK



SYSTEM CONTROL SECTION	
Transistor	
Q1502	F-7
Q1503	F-8
Q6002	A-9
Q6003	D-9 (NV-G10, G7B)
Q6004	C-7
Q6005	D-10
Q6006	D-10
Q6007	D-10
Transistor & Resistor	
QR6001	B-7
QR6002	C-10
QR6003	D-10
QR6005	B-7
Integrated Circuit	
IC1501	E-6
IC6001	B-9
IC6002	D-9
IC6003	C-7
IC6004	C-9
Test Point	
TP6001	C-9
TP GND	C-9

ADDRESS INFORMATION

ICs & TRANSISTORs INFORMATION



1
10
M54649L
BA6248
4
5
8
1
AN6914
32
33
64
1
MN15342VQH (NV-G10)
MN15342VDC (NV-G7)
3
1
MN1280
E C B
2SD636
2SD638
2SB643
2SB790
C
10 K
B
10 K
E
E C B
DTC114EA
C
22 K
B
22 K
E
E C B
DTA124EA
C
22 K
B
22 K
E
E C B
DTC124EA

SYSTEM

REF. NO. / MODE	1
STOP	0
PLAY	0
REC	0
F.F	0
REW	0

REF. NO. / MODE	21
STOP	3.3
PLAY	3.3
REC	3.3
F.F	3.3
REW	3.3

REF. NO. / MODE	41
STOP	0
PLAY	5.1
REC	5.1
F.F	5.1
REW	5.1

REF. NO. / MODE	61
STOP	4.8
PLAY	4.8
REC	4.8
F.F	4.8
REW	4.8

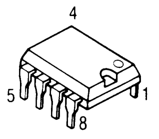
REF. NO. / MODE	1
STOP	0
PLAY	0
REC	0
F.F	0
REW	0

SYSTEM

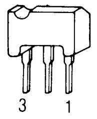
REF. NO. / MODE	E
STOP	0.9
PLAY	0.9
REC	0.9
F.F	0.9
REW	0.9

REF. NO. / MODE	E
STOP	0
PLAY	0
REC	0
F.F	0
REW	0

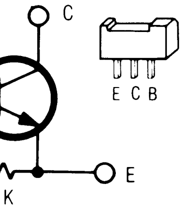
ORs INFORMATION



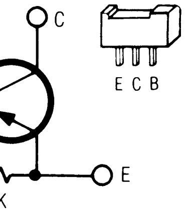
AN6914



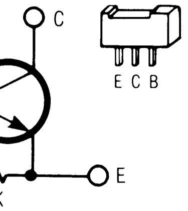
MN1280



C114EA



124EA



C124EA

SYSTEM CONTROL ICs VOLTAGE CHART

REF. NO.	IC6001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0	5.1	0	0	5.1	0	5.1	5.2	3.9	5.3	0.1	4.8	4.9	4.9	5.3	3.0	0	5.0	3.3
PLAY	0	5.1	5.1	0	0	5.1	0	5.1	5.2	3.9	5.3	0.2	4.8	4.9	4.9	5.3	3.0	2.6	—	3.3
REC	0	5.1	5.1	0	0	5.1	0	5.1	5.2	3.9	5.3	3.0	4.8	4.9	4.9	5.3	3.0	2.6	—	3.3
F.F	0	0.1	5.1	0	0	5.1	0	5.1	5.2	3.9	5.3	0.1	4.8	4.9	4.9	5.3	3.0	0	2.7	3.3
REW	0	0.1	5.1	0	0	5.1	0	5.1	5.2	3.9	5.3	0.1	4.8	4.9	4.9	5.3	3.0	0	2.7	3.3
REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	3.3	0	5.3	0	5.3	5.3	0.1	5.3	0	5.1	1.2	0.9	4.5	0.1	5.1	0	0.1	5.1	0	0
PLAY	3.3	0	5.3	0	5.3	5.3	5.3	0.1	0	5.1	1.2	0.9	4.5	5.1	5.1	0	0	0	0	0
REC	3.3	0	5.3	0	5.3	5.3	5.3	0.1	0	5.1	1.2	0.9	4.5	5.1	5.1	0	0	0	0	0
F.F	3.3	0	5.3	0	5.3	0.1	5.3	0.1	0	5.1	1.2	0.9	4.5	0	5.1	5.1	0	0	0	5.1
REW	3.3	0	5.3	0	5.3	0.1	5.3	0.1	0	5.1	1.2	0.9	4.5	0	5.1	5.1	0	0	5.1	5.1
REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0.7	12.3	0.2	0.3	0.1	0	5.1	0	0	0.1	0	0	0	0	0	5.0	0	5.1	5.1
PLAY	5.1	0.5	12.3	0.2	0.3	0.1	0	5.1	0	0	5.1	0	0.6	0	0	0	5.0	0	5.1	5.1
REC	5.1	0	0.3	4.3	0.3	0.1	0	5.1	0	0	0.1	0	0.6	0	0	0	5.0	0	5.1	5.1
F.F	5.1	0.8	12.3	0.2	12.3	0.1	0	5.1	0	0	0	0	0.6	0	0	0	5.0	0	5.1	5.1
REW	5.1	0.8	12.3	0.2	12.3	0.1	0	5.1	0	0	0	0	0.6	0	0	0	5.0	0	5.1	5.1
REF. NO.	IC6001										IC6002									
MODE	61	62	63	64							1	2	3	4	5	6	7	8		
STOP	4.8	2.1	2.2	5.1							5.0	0.3	2.7	0	0	0.4	0	5.3		
PLAY	4.8	2.1	2.2	5.1							—	—	2.7	0	0	0.4	0	5.3		
REC	4.8	2.1	2.2	5.1							—	—	2.7	0	0	0.4	0	5.3		
F.F	4.8	2.1	2.2	5.1							2.7	2.4	2.7	0	0	0.4	0	5.3		
REW	4.8	2.1	2.2	5.1							2.7	2.4	2.7	0	0	0.4	0	5.3		
REF. NO.	IC6003										IC6004									
MODE	1	2	3	4	5	6	7	8	9	10	1	2	3							
STOP	0	0.2	0.2	0	0	0	12.3	5.6	16.2	0.2	5.3	5.3	0							
PLAY	0	0.2	0.2	0	0	0	12.3	5.6	16.2	0.2	5.3	5.3	0							
REC	0	0.2	0.2	0	0	0	12.3	5.6	16.2	0.2	5.3	5.3	0							
F.F	0	0.2	0.2	0	0	0	12.3	5.6	16.2	0.2	5.3	5.3	0							
REW	0	0.2	0.2	0	0	0	12.3	5.6	16.2	0.2	5.3	5.3	0							

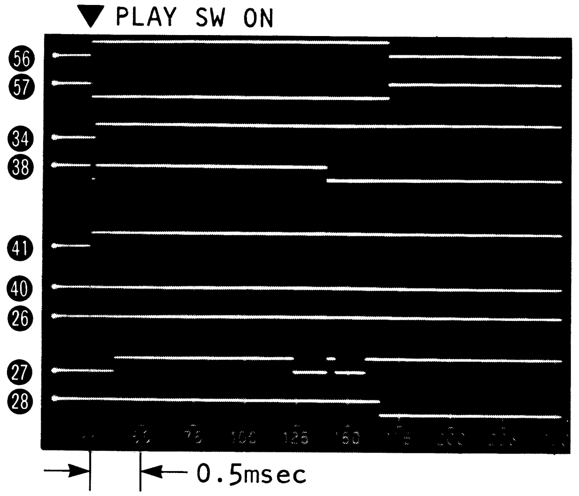
SYSTEM CONTROL TRANSISTORs VOLTAGE CHART

REF. NO.	Q6002			Q6003			Q6004			Q6005			Q6006			Q6007		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0.9	1.0	1.6	12.3	12.2	11.6	0.1	16.2	0.5	12.3	0	12.3	12.3	12.3	11.6	5.1	5.3	5.9
PLAY	0.9	1.0	1.6	12.3	12.2	11.6	0.6	16.2	0.9	12.3	0	12.3	12.3	12.3	11.6	5.1	5.3	5.9
REC	0.9	1.0	1.6	12.3	12.2	11.6	0.6	16.2	1.0	12.3	12.2	11.6	12.3	12.3	11.6	0	5.3	0
F.F	0.9	1.0	1.6	12.3	0	12.3	0.6	16.2	0.9	12.3	0	12.3	12.3	12.3	11.6	5.1	5.3	5.9
REW	0.9	1.0	1.6	12.3	0	12.3	0.6	16.2	1.0	12.3	0	12.3	12.3	12.3	11.6	5.1	5.3	5.9
REF. NO.	QR6001			QR6002			QR6003			QR6005								
MODE	E	C	B	E	C	B	E	C	B	E	C	B						
STOP	0	0	5.0	0	5.9	0.2	5.1	5.1	0.1	0	13.6	0.1						
PLAY	0	0	5.0	0	5.9	0.2	5.1	0.1	5.1	0	13.6	0.1						
REC	0	0	5.0	0	0	4.3	5.1	5.1	0.1	0	13.6	0.1						
F.F	0	0	5.0	0	5.9	0.2	5.1	5.1	0	0	13.0	0.1						
REW	0	0	5.0	0	5.9	0.2	5.1	5.1	0	0	13.6	0.1						

MICROPROCESSOR IC6001 (MN15342VQH/MN15342VDC) MODE BY MODE TIMING CHART

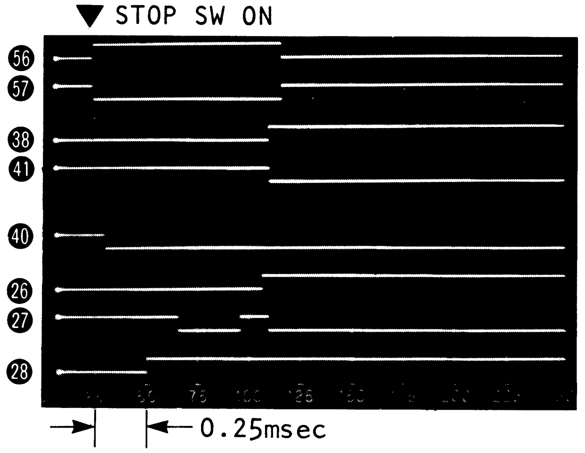
STOP → PLAY

IC Pin No.



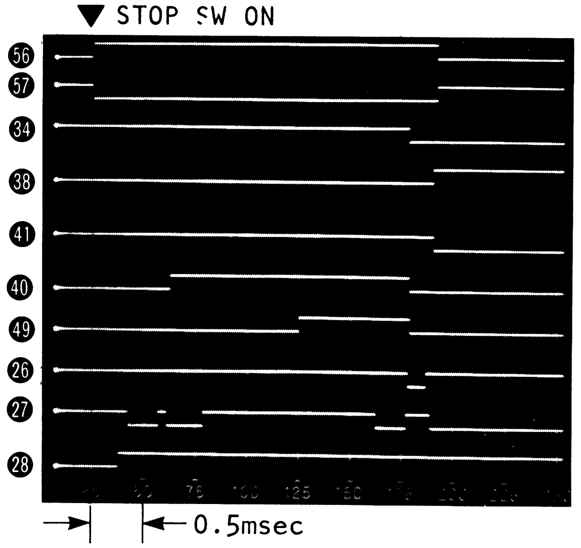
FF → STOP

IC Pin No.



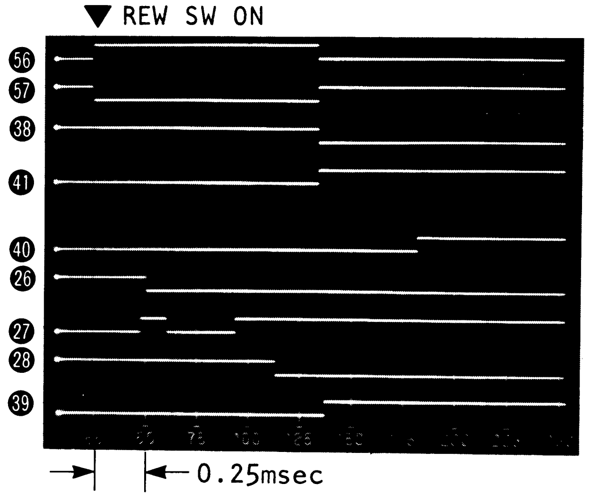
PLAY → STOP

IC Pin No.



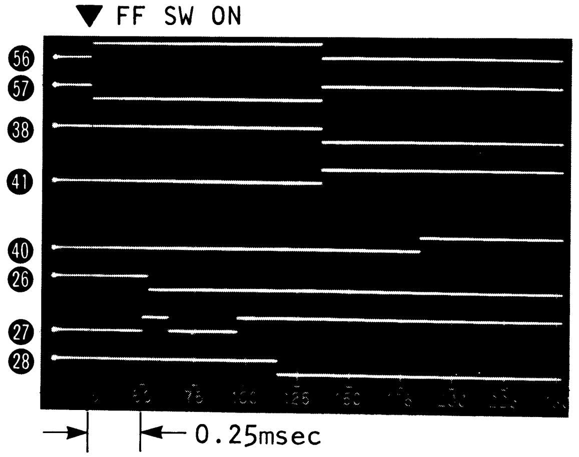
STOP → REW

IC Pin No.



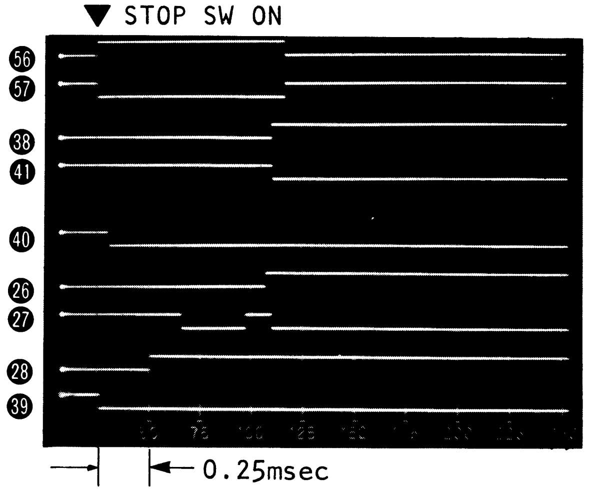
STOP → FF

IC Pin No.



REW → STOP

IC Pin No.



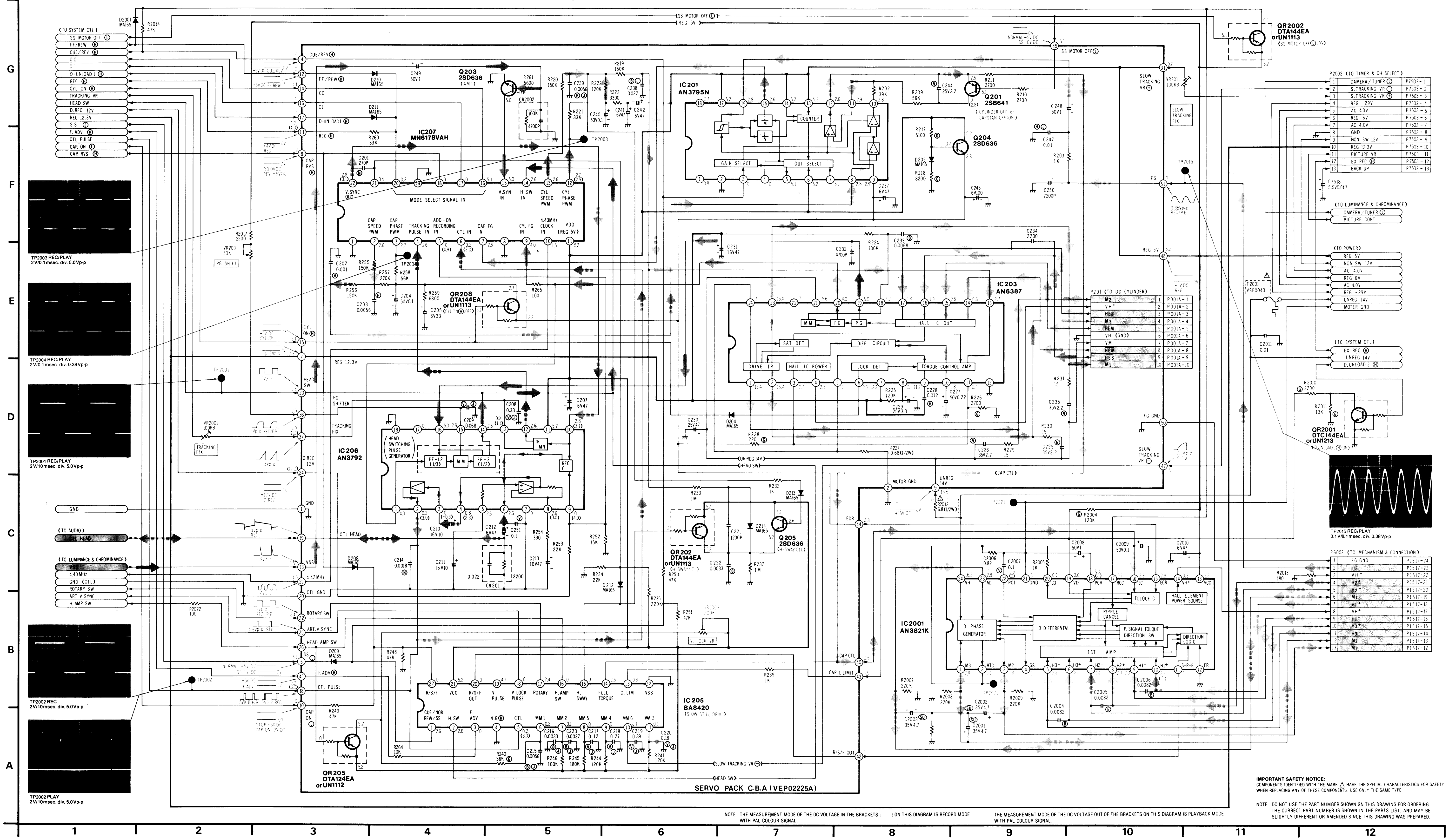
3-8. SERVO SCHEMATIC DIAGRAM

CYLINDER SERVO SPEED LOOP

CAPSTAN SERVO SPEED LOOP

CYLINDER SERVO PHASE LOOP

CAPSTAN SERVO PHASE LOOP



G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12
(TO SYSTEM CTL)
SS MOTOR OFF Ⓛ
FF/REW Ⓗ
CUE/REV Ⓗ
C O
C I
D-UNLOAD 1 Ⓗ
REC Ⓗ
CYL ON Ⓗ
TRACKING VR
HEAD SW
D.REC 12V
REG 12.3V
S.S Ⓛ
F. ADV Ⓗ
CTL PULSE
CAP. ON Ⓛ
CAP. RVS Ⓗ
D2001 MA165
R2014 47K
(SS MOTOR OFF Ⓛ)
(REG 5V)
IC207 MN6178VAH
Q203 2SD636 (AMP)
IC201 AN3795N
GAIN SELECT
OUT SELECT
COUNTER
Q201 2SB641 (CYLINDER OFF or CAPSTAN OFF:ON)
Q204 2SD636
IC203 AN6387
SAT DET
DIFF CIRCUIT
DRIVE TR
HALL IC POWER
LOCK DET
TORQUE CONTROL AMP
HALL IC OUT
QR208 DTA144EA or UN1113
IC206 AN3792
HEAD SWITCHING PULSE GENERATOR
QR202 DTA144EA or UN1113 (H-SWAY CTL)
Q205 2SD636 (H-SWAY CTL)
IC205 BA8420 (SLOW STILL DRIVE)
QR205 DTA124EA or UN1112
IC2001 AN3821K
3 PHASE GENERATOR
3 DIFFERENTIAL
TOLQUE C
HALL ELEMENT POWER SOURSE
RIPPLE CANCEL
P. SIGNAL TOLQUE DIRECTION SW
DIRECTION LOGIC
1ST AMP
QR2002 DTA144EA or UN1113 (SS MOTOR OFF Ⓛ:ON)
QR2001 DTC144EAL or UN1213
SLOW TRACKING VR ⊕
SLOW TRACKING VR ⊖
SLOW TRACKING FIX
PG SHIFT
TRACKING FIX
SERVO PACK C.B.A (VEP02225A)
P2002 (TO TIMER & CH SELECT)
1 CAMERA/TUNER Ⓛ P7503-1
2 S.TRACKING VR ⊖ P7503-2
3 S.TRACKING VR ⊕ P7503-3
4 REG -29V P7503-4
5 AC 4.0V P7503-5
6 REG 6V P7503-6
7 AC 4.0V P7503-7
8 GND P7503-8
9 NON SW 12V P7503-9
10 REG 12.3V P7503-10
11 PICTURE VR P7503-11
12 EX PEC Ⓗ P7503-12
13 BACK UP P7503-13
C7518 5.5V0.047
(TO LUMINANCE & CHROMINANCE)
CAMERA/TUNER Ⓛ
PICTURE CONT
(TO POWER)
REG 5V
NON SW 12V
AC 4.0V
REG 6V
AC 4.0V
REG -29V
UNREG 14V
MOTOR GND
F2001 VSF0043
(TO SYSTEM CTL)
EX REC Ⓗ
UNREG 14V
D.UNLOAD 2 Ⓗ
P201 (TO DD CYLINDER)
M2 1 P001A-1
VH+ 2 P001A-2
HES 3 P001A-3
M3 4 P001A-4
HEM 5 P001A-5
VH- (GND) 6 P001A-6
VM 7 P001A-7
HEM 8 P001A-8
HES 9 P001A-9
M1 10 P001A-10
P6002 (TO MECHANISM & CONNECTION)
1 FG GND P1517-24
2 FG P1517-23
3 VH- P1517-22
4 H2+ P1517-21
5 H2- P1517-20
6 M1 P1517-19
7 H1+ P1517-18
8 VH+ P1517-17
9 H1- P1517-16
10 H3+ P1517-15
11 H3- P1517-14
12 M3 P1517-13
13 M2 P1517-12
GND
(TO AUDIO)
CTL HEAD
(TO LUMINANCE & CHROMINANCE)
VSS
4.43MHz
GND (CTL)
ROTARY SW
ART. V SYNC
H. AMP SW
TP2003 REC/PLAY 2V/0.1msec. div. 5.0Vp-p
TP2004 REC/PLAY 2V/0.1msec. div. 0.38Vp-p
TP2001 REC/PLAY 2V/10msec. div. 5.0Vp-p
TP2002 REC 2V/10msec. div. 5.0Vp-p
TP2002 PLAY 2V/10msec. div. 5.0Vp-p
TP2015 REC/PLAY 0.1V/0.1msec. div. 0.38Vp-p

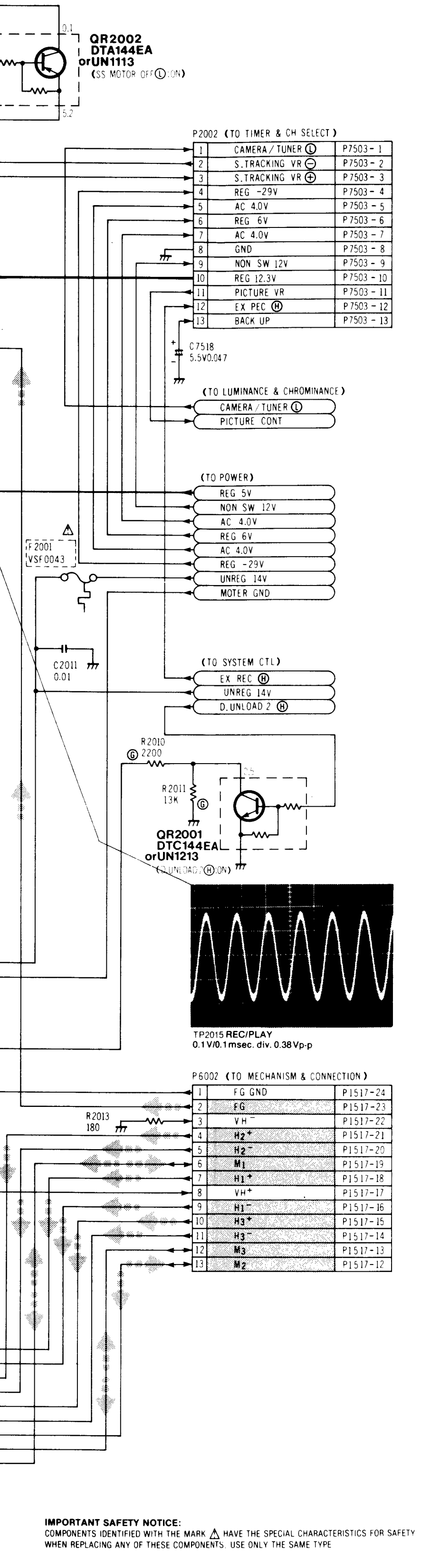
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

Back Page:
SYSTEM CONTROL Section


QR2002
DTA144EA
orUN1113
(SS MOTOR OFF Ⓛ:ON)
P2002 (TO TIMER & CH SELECT)
1 CAMERA / TUNER Ⓛ P7503-1
2 S.TRACKING VR ⊖ P7503-2
3 S.TRACKING VR ⊕ P7503-3
4 REG -29V P7503-4
5 AC 4.0V P7503-5
6 REG 6V P7503-6
7 AC 4.0V P7503-7
8 GND P7503-8
9 NON SW 12V P7503-9
10 REG 12.3V P7503-10
11 PICTURE VR P7503-11
12 EX PEC Ⓗ P7503-12
13 BACK UP P7503-13
C7518
5.5V0.047
(TO LUMINANCE & CHROMINANCE)
CAMERA / TUNER Ⓛ
PICTURE CONT
(TO POWER)
REG 5V
NON SW 12V
AC 4.0V
REG 6V
AC 4.0V
REG -29V
UNREG 14V
MOTER GND
F2001
VSF0043
C2011
0.01
(TO SYSTEM CTL)
EX REC Ⓗ
UNREG 14V
D.UNLOAD 2 Ⓗ
R2010
Ⓖ 2200
R2011
13K
QR2001
DTC144EA
orUN1213
(D.UNLOAD 2 Ⓗ:ON)
TP2015 REC/PLAY
0.1V/0.1msec. div. 0.38Vp-p
P6002 (TO MECHANISM & CONNECTION)
R2013
180
1 FG GND P1517-24
2 FG P1517-23
3 VH⁻ P1517-22
4 H2⁺ P1517-21
5 H2⁻ P1517-20
6 M1 P1517-19
7 H1⁺ P1517-18
8 VH⁺ P1517-17
9 H1⁻ P1517-16
10 H3⁺ P1517-15
11 H3⁻ P1517-14
12 M3 P1517-13
13 M2 P1517-12

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

11 12

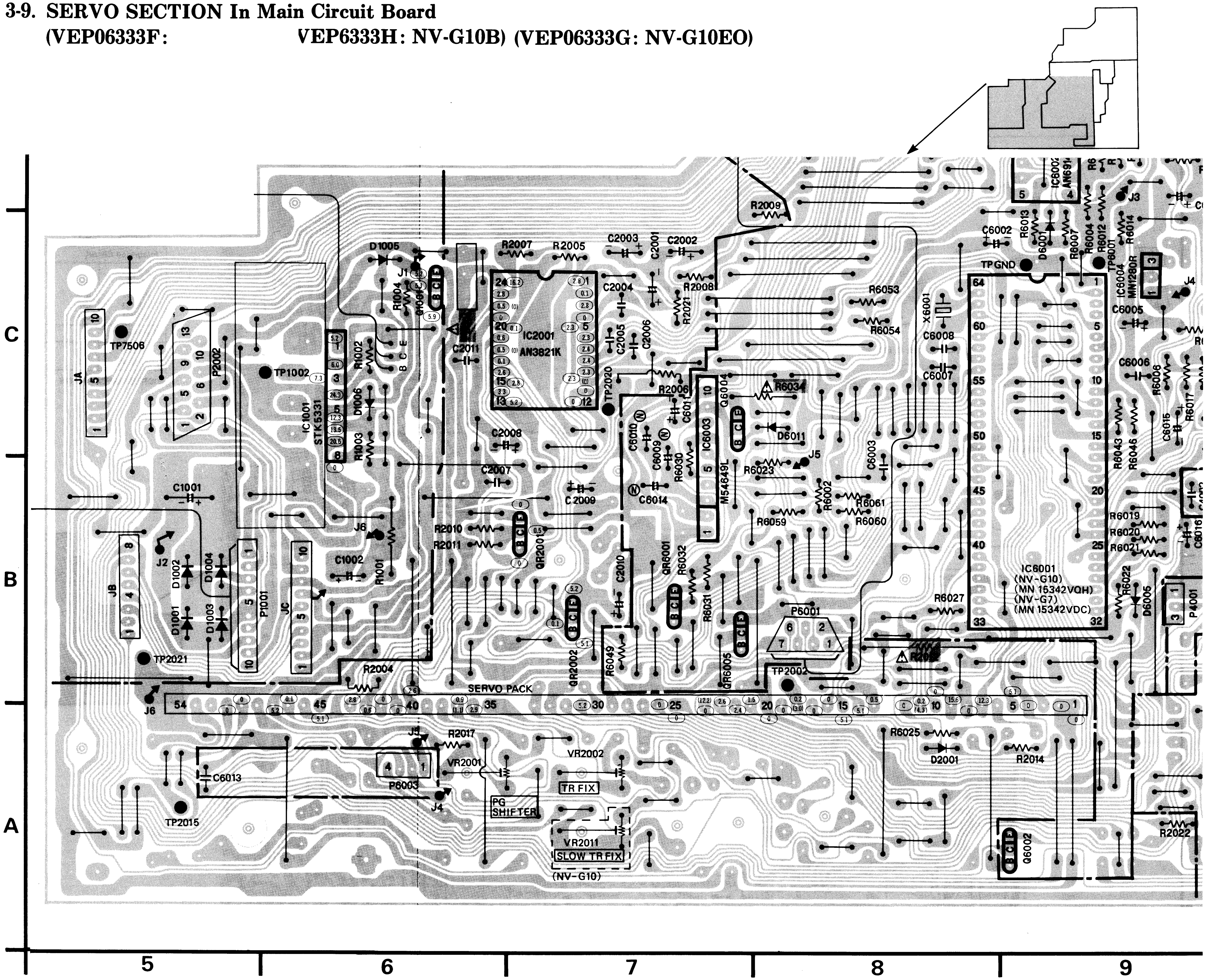
SERVO & SERVO PACK SCHEMATIC (NV-G10)	
Transistor	
Q201	G-9
Q203	G-4
Q204	F-9
Q205	C-7
Transistor & Resistor	
QR202	C-6
QR205	A-3
QR208	E-4
QR2001	D-12
QR2002	G-11
Integrated Circuit	
IC201	G-6
IC203	E-9
IC205	B-6
IC206	D-3
IC207	F-4
IC2001	B-8
Test Point	
TP2001	D-2
TP2002	B-2
TP2003	F-5
TP2004	E-4
TP2015	F-10
TP2020	B-9
TP2021	C-9
Adjustment	
VR2001	E-2
VR2002	D-2
VR2003	B-6
VR2011	G-10
Connector	
P201	E-10
P2002	G-12
P6002	C-12

ADDRESS INFORMATION

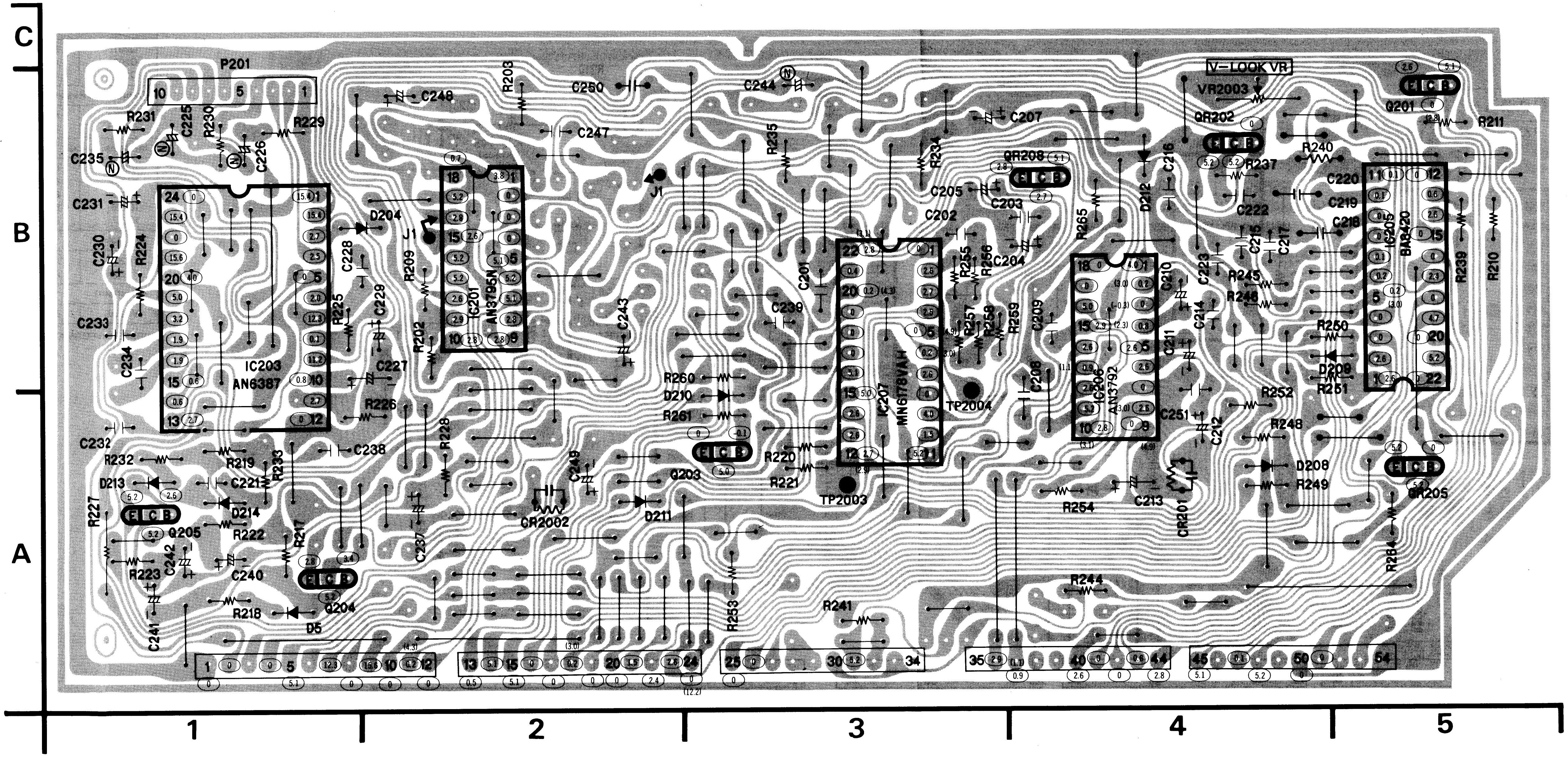
SERVO SECTION	
Transistor & Resistor	
QR2001	B-7
QR2002	B-7
Integrated Circuit	
IC2001	C-7
Test Point	
TP2001	B-9
TP2002	B-8
TP2015	A-5
TP2020	C-7
TP2021	B-5
Adjustment	
VR2001	A-6
VR2002	A-7
VR2011	A-7 (NV-G10B/EG/EO)

ADDRESS INFORMATION

3-9. SERVO SECTION In Main Circuit Board
(VEP06333F: VEP6333H: NV-G10B) (VEP06333G: NV-G10EO)


C
B
A
5
6
7
8
9
TP7506
JA
P2002
TP1002
IC1001
STK5331
D1005
J1
R1004
R1002
D1006
R1003
C1001
J6
C1002
R1001
J2
D1002
D1004
D1001
D1003
P1001
JB
JC
TP2021
J6
TP2015
C6013
J5
R2017
P6003
J4
VR2001
PG SHIFTER
R2004
R2007
R2005
IC2001
AN3821K
C2011
C2008
C2007
R2010
R2011
QR2001
QR2002
SERVO PACK
TP2020
C2003
C2001
C2002
C2004
C2005
C2006
R2008
R2021
R2006
C2009
C2010
VR2002
TR FIX
VR2011
SLOW TR FIX
(NV-G10)
R2009
C6010
C6009
R6030
C6014
IC6003
M54649L
C6011
Q6004
R6034
D6011
R6023
R6002
R6059
R6061
R6060
QR6001
R6032
R6031
R6049
QR6005
P6001
TP2002
R2001
R6053
R6054
X6001
C6008
C6007
C6003
R6027
R6025
D2001
R2014
C6002
R6013
D6001
R6007
R6004
R6012
R6014
TP6001
TPGND
IC6004
MN1280R
J3
J4
C6005
C6006
R6008
R6017
C6015
R6043
R6046
R6019
R6020
R6021
R6022
D6005
IC6001
(NV-G10)
(MN 15342VQH)
(NV-G7)
(MN 15342VDC)
P4001
Q6002
R2022

3-10. SERVO PACK CIRCUIT BOARD (VEP02225A: NV-G10)

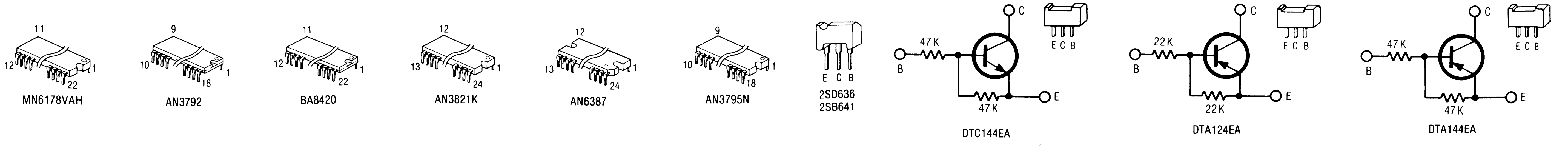

C
B
A
1
2
3
4
5
P201
10
5
1
R231
C225
R230
R229
C235
C226
C231
C230
R224
C233
C234
C232
IC203
AN6387
24
20
15
13
1
5
10
12
R232
R219
D213
C221
R227
Q205
R222
D214
R223
C242
C240
C241
R218
D5
Q204
R233
R217
C238
R225
C228
C229
C227
R226
D204
J1
R209
R202
IC201
AN3795N
18
15
10
9
C248
R203
C250
C247
C243
R228
C237
C249
CR2002
Q203
D211
R260
D210
R261
C244
R235
C201
C239
IC207
MN6178VAH
22
20
12
11
R220
R221
TP2003
TP2004
R234
C205
C202
C203
QR208
C207
R255
R256
C204
R257
R258
R259
C209
C206
R265
IC206
AN3792
C211
C251
C212
R254
C213
CR201
R244
R241
R253
D212
C216
D210
C223
C214
V—LOOK VR
VR2003
QR202
R237
C222
C215
C217
R245
R246
R240
C220
C219
C218
IC205
BA8420
Q201
R211
R239
R210
R250
D209
R251
R252
R248
D208
R249
QR205
R284
25
30
34
35
40
44
45
50
54
E C B

SERVO PACK CIRCUIT BOARD (NV-G10)

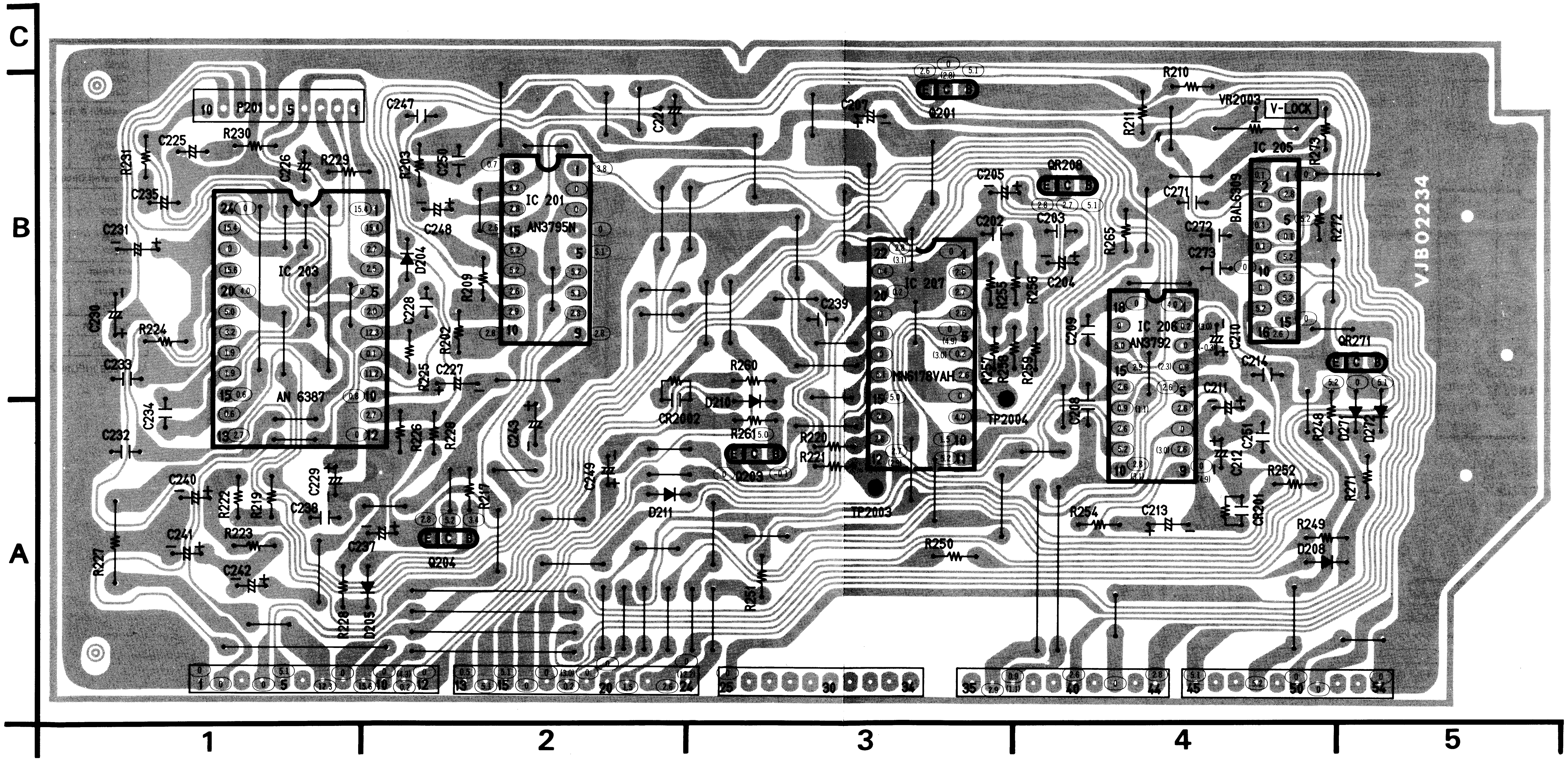
Transistor	
Q201	B-5
Q203	A-3
Q204	A-1
Q205	A-1
Transistor & Resistor	
QR202	B-4
QR205	A-5
QR208	B-4
Integrated Circuit	
IC201	B-2
IC203	B-1
IC205	B-5
IC206	A-4
IC207	B-3
Test Point	
TP2003	A-3
TP2004	B-3
Adjustment	
VR2003	C-4

ADDRESS INFORMATION

ICs & TRANSISTORs INFORMATION


11
12
1
22
MN6178VAH
9
10
1
18
AN3792
11
12
1
22
BA8420
12
13
1
24
AN3821K
12
13
1
24
AN6387
9
10
1
18
AN3795N
E C B
2SD636
2SB641
47K
B
C
E
47K
E C B
DTC144EA
22K
B
C
E
22K
E C B
DTA124EA
47K
B
C
E
47K
E C B
DTA144EA

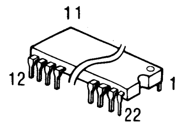
3-11. SERVO PACK CIRCUIT BOARD (VEP02234A: NV-G7)


C
B
A
1
2
3
4
5
VJB02234
P201
10
5
1
C247
C225
R230
R231
C226
R229
R203
C250
C224
C207
Q201
R210
R211
VR2003
V-LOCK
C235
IC 203
AN 6387
IC 201
AN3795N
C248
D204
R209
C228
R202
C227
R225
R226
R228
C231
C230
R224
C233
C234
C232
C205
QR208
C202
C203
C204
R265
C271
C272
C273
BAL6309
IC 205
R213
R272
IC 207
MN6178VAH
R255
R256
R257
R258
R259
C239
TP2004
IC 206
AN3792
C209
C210
C214
QR271
C208
C211
C221
C212
R252
R248
D271
D272
R260
D210
CR2002
R261
Q203
R220
R221
C243
C249
D211
TP2003
R254
C213
CR201
R271
R249
D208
C240
C241
R222
R219
C229
C238
R223
C242
R227
C237
Q204
R217
R220
D205
R250
R251
1
5
10
12
13
15
20
24
25
30
34
35
40
44
45
50
54

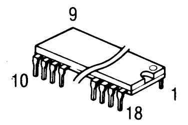
SERVO PACK CIRCUIT BOARD (NV-G7)	
Transistor	
Q201	B-3
Q203	A-3
Q204	A-2
Transistor & Resistor	
QR208	B-4
QR271	B-5
Integrated Circuit	
IC201	B-2
IC203	B-1
IC205	B-4
IC206	B-4
IC207	B-3
Test Point	
TP2003	A-3
TP2004	A-3
Adjustment	
VR2003	B-4

ADDRESS INFORMATION

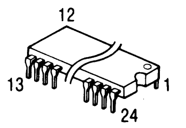
ICs & TRANSISTORs INFORMATION



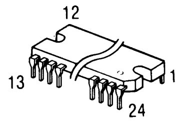
MN6178VAH



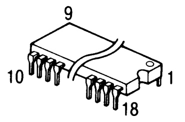
AN3792



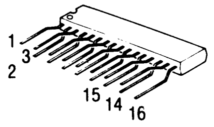
AN3821K



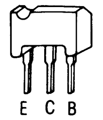
AN6387



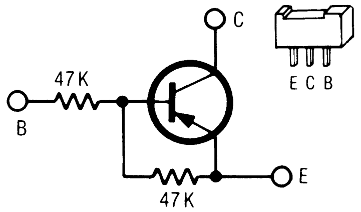
AN3795N



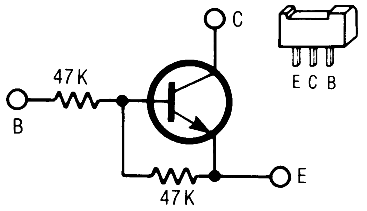
BAL6309



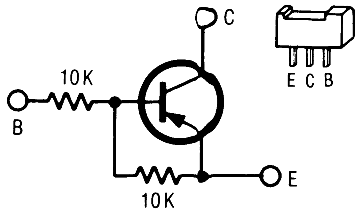
2SD636
2SB641


C
B
47K
47K
E
E C B

DTA144EA


C
B
47K
47K
E
E C B

DTC144EA

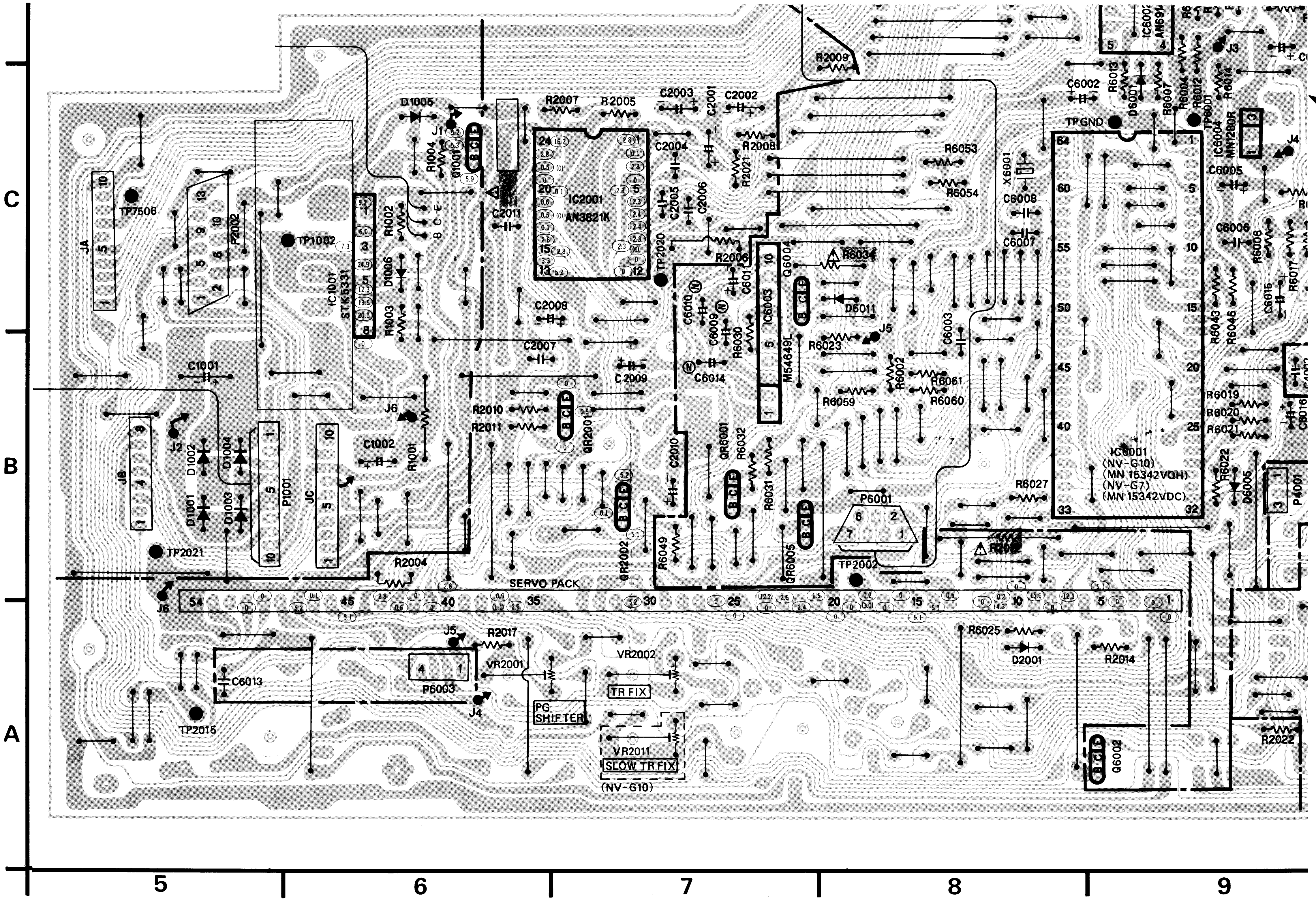

C
B
10K
10K
E
E C B

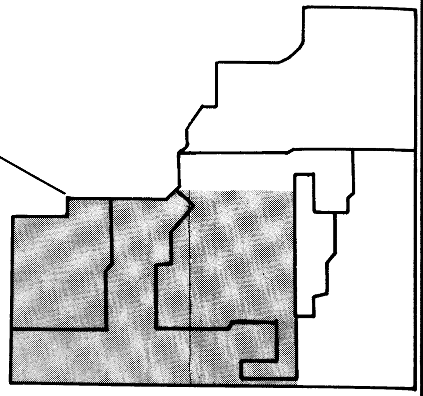
DTA114EA

Back Page:
SERVO Section

MC-Service

3-12. SERVO Section In Main Circuit Board (VEP06333P: NV-G7EG) (VEP06333L: NV-G7B) (VEP06333N: NV-G7EO)

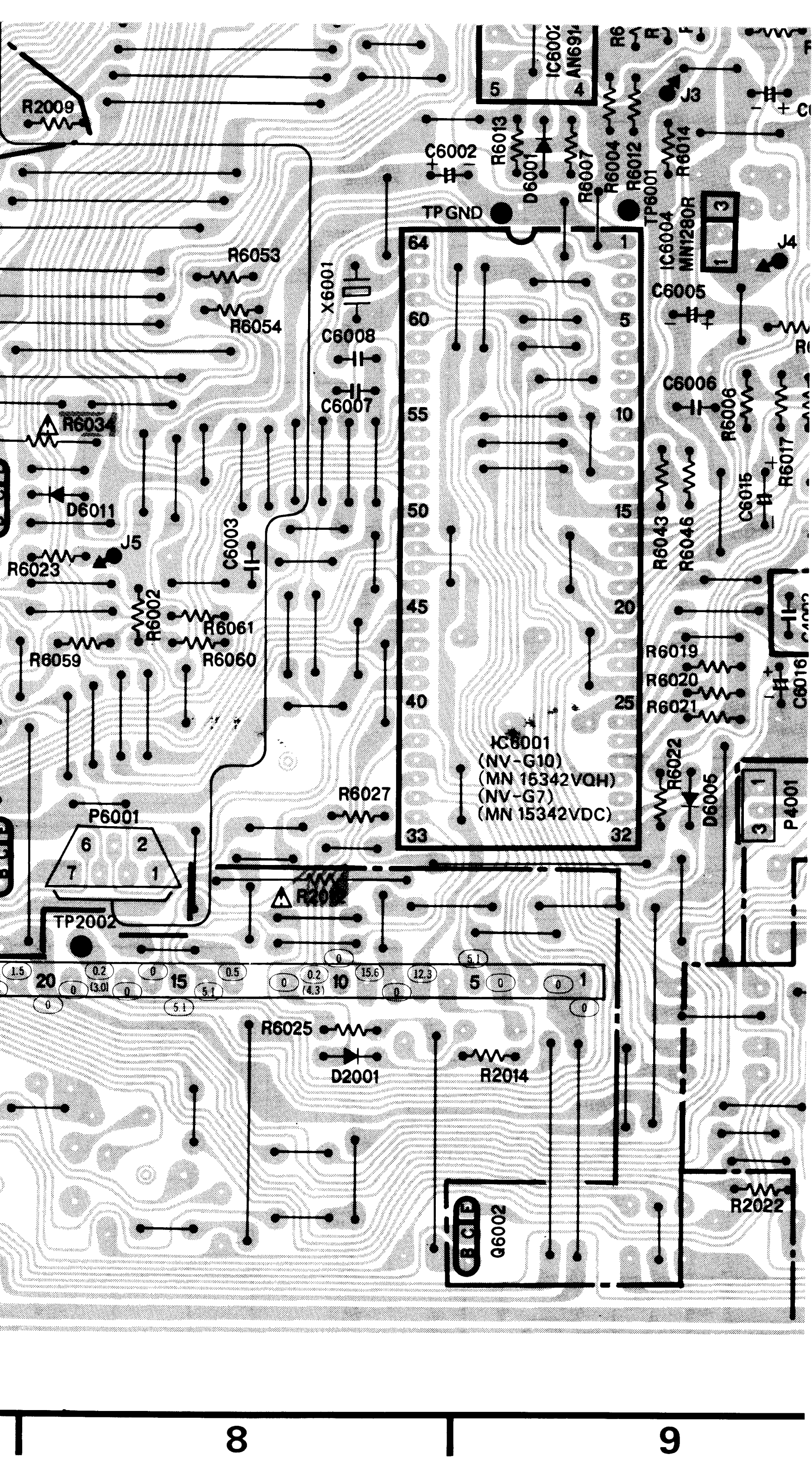

C
B
A
5
6
7
8
9
JA
TP7506
P2002
TP1002
IC1001 STK5331
D1005
J1
R1004
Q1001
R1002
D1006
R1003
C2011
R2007
R2005
C2003
C2001
C2002
R2009
R2008
R2021
IC2001 AN3821K
C2004
C2005
C2006
TP2020
R2006
C6010
C6009
C6011
R6030
IC6003 M54649L
Q6004
R6034
D6011
J5
R6023
R6002
R6061
R6060
R6059
C6003
R6053
R6054
X6001
C6008
C6007
C6002
R6013
D6001
R6007
R6004
R6012
R6014
TP6001
IC6004 MN1280R
J3
J4
IC6002 AN6914
TP GND
C6005
C6006
R6006
R6017
C6015
R6043
R6046
R6019
R6020
R6021
C6018
IC6001 (NV-G10) (MN 15342VQH) (NV-G7) (MN 15342VDC)
R6022
D6005
P4001
R6027
R2012
P6001
TP2002
C1001
J6
C2008
C2007
C2009
C6014
R2010
R2011
QR2001
QR2002
R6049
C2010
QR6001
R6032
R6031
Q6005
JB
J2
D1002
D1004
D1001
D1003
P1001
JC
C1002
R1001
TP2021
R2004
SERVO PACK
54
45
40
35
30
25
20
15
10
5
1
J5
R2017
C6013
P6003
J4
VR2001
PG SHIFTER
VR2002
TR FIX
VR2011
SLOW TR FIX
(NV-G10)
TP2015
R6025
D2001
R2014
Q6002
R2022



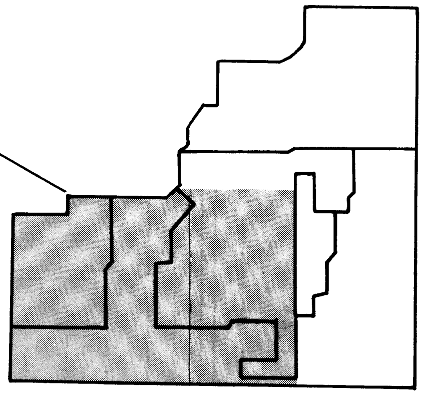
SERVO SECTION	
Transistor & Resistor	
QR2001 QR2002	B-7 B-7
Integrated Circuit	
IC2001	C-7
Test Point	
TP2001 TP2002 TP2015 TP2020 TP2021	B-9 B-8 A-5 C-7 B-5
Adjustment	
VR2001 VR2002 VR2011	A-6 A-7 A-7 (NV-G10B/EG/EO)

ADDRESS INFORMATION

33L: NV-G7B) (VEP06333N: NV-G7EO)



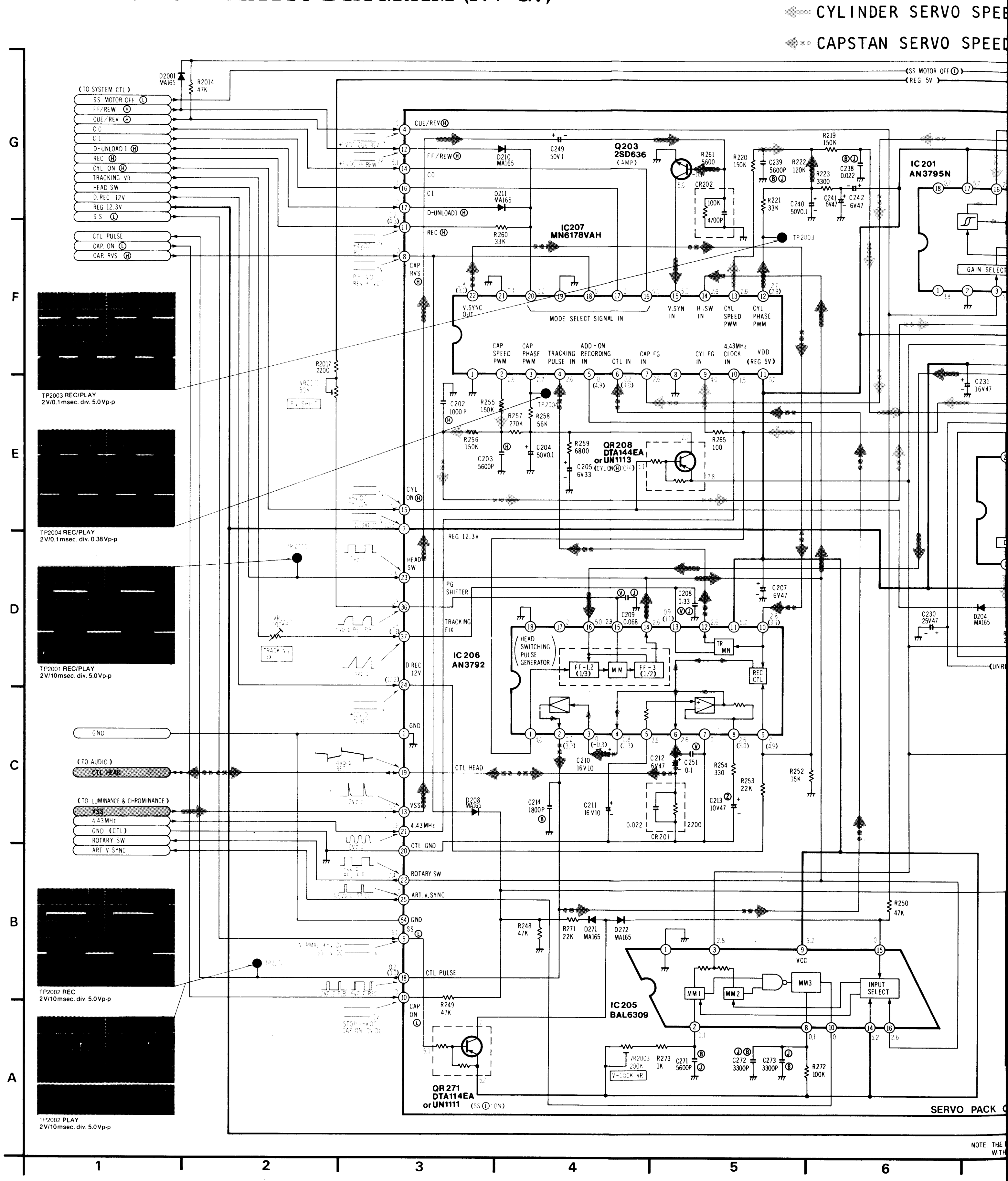
R2009
C6002
R6013
D6001
R6007
R6004
R6012
R6014
TP6001
IC6004
MN1280R
J3
J4
TP GND
IC6002
AN6914
R6053
R6054
X6001
C6008
C6007
C6005
C6006
R6006
R6017
R6034
D6011
J5
R6023
C6003
R6002
R6061
R6060
R6059
R6043
R6046
C6015
R6019
R6020
R6021
C6016
R6022
D6005
P4001
IC6001
(NV-G10)
(MN 15342VQH)
(NV-G7)
(MN 15342VDC)
R6027
P6001
TP2002
R6025
D2001
R2014
R2022
Q6002
8
9



SERVO SECTION	
Transistor & Resistor	
QR2001	B-7
QR2002	B-7
Integrated Circuit	
IC2001	C-7
Test Point	
TP2001	B-9
TP2002	B-8
TP2015	A-5
TP2020	C-7
TP2021	B-5
Adjustment	
VR2001	A-6
VR2002	A-7
VR2011	A-7 (NV-G10B/EG/EO)

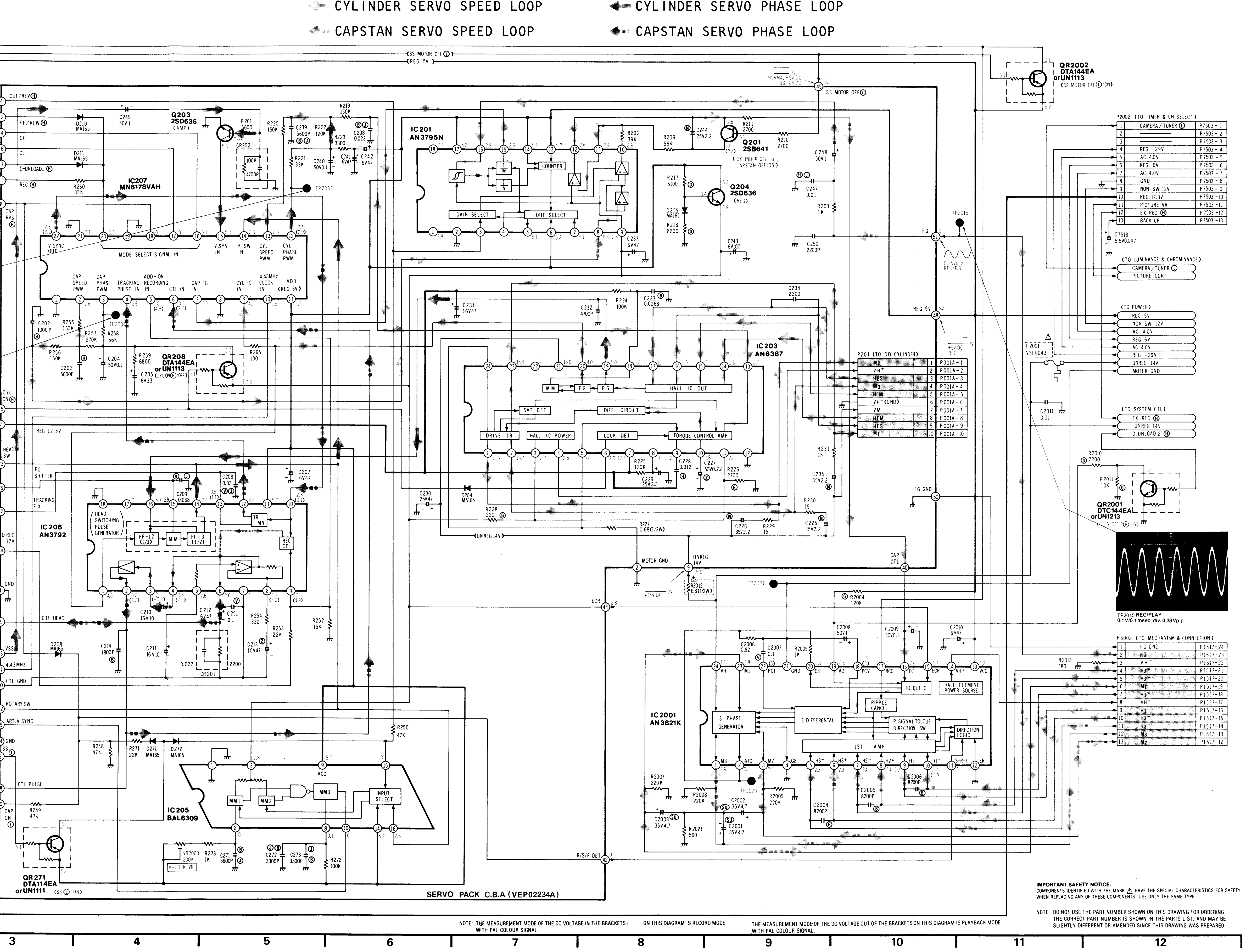
ADDRESS INFORMATION

3-13. SERVO SCHEMATIC DIAGRAM (NV-G7)



CYLINDER SERVO SPE
CAPSTAN SERVO SPEE
(TO SYSTEM CTL)
SS MOTOR OFF
FF/REW
CUE/REV
CO
CI
D-UNLOAD I
REC
CYL ON
TRACKING VR
HEAD SW
D.REC 12V
REG 12.3V
S.S
CTL PULSE
CAP ON
CAP RVS
GND
(TO AUDIO)
CTL HEAD
(TO LUMINANCE & CHROMINANCE)
VSS
4.43MHz
GND (CTL)
ROTARY SW
ART. V. SYNC
D2001 MA165
R2014 47K
Q203 2SD636 (AMP)
IC207 MN6178VAH
IC201 AN3795N
IC206 AN3792
IC205 BAL6309
QR208 DTA144EA or UN1113
QR271 DTA114EA or UN1111
TP2003
TP2004
TP2001
TP2002
MODE SELECT SIGNAL IN
HEAD SWITCHING PULSE GENERATOR
SERVO PACK
G
F
E
D
C
B
A
1
2
3
4
5
6
TP2003 REC/PLAY 2V/0.1msec. div. 5.0Vp-p
TP2004 REC/PLAY 2V/0.1msec. div. 0.38Vp-p
TP2001 REC/PLAY 2V/10msec. div. 5.0Vp-p
TP2002 REC 2V/10msec. div. 5.0Vp-p
TP2002 PLAY 2V/10msec. div. 5.0Vp-p

RAM (NV-G7)


CYLINDER SERVO SPEED LOOP
CAPSTAN SERVO SPEED LOOP
CYLINDER SERVO PHASE LOOP
CAPSTAN SERVO PHASE LOOP
IC201 AN3795N
IC203 AN6387
IC205 BAL6309
IC206 AN3792
IC207 MN6178VAH
IC2001 AN3821K
Q201 2SB641
Q203 2SD636
Q204 2SD636
QR208 DTA144EA orUN1113
QR271 DTA114EA orUN1111
QR2001 DTC144EA orUN1213
QR2002 DTA144EA orUN1113
P2002 (TO TIMER & CH SELECT)
P201 (TO DD CYLINDER)
P6002 (TO MECHANISM & CONNECTION)
(TO LUMINANCE & CHROMINANCE)
(TO POWER)
(TO SYSTEM CTL)
SS MOTOR OFF
REG 5V
SERVO PACK C.B.A (VEP02234A)
TP2015 REC/PLAY
0.1V/0.1msec. div. 0.38Vp-p
3
4
5
6
7
8
9
10
11
12

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE

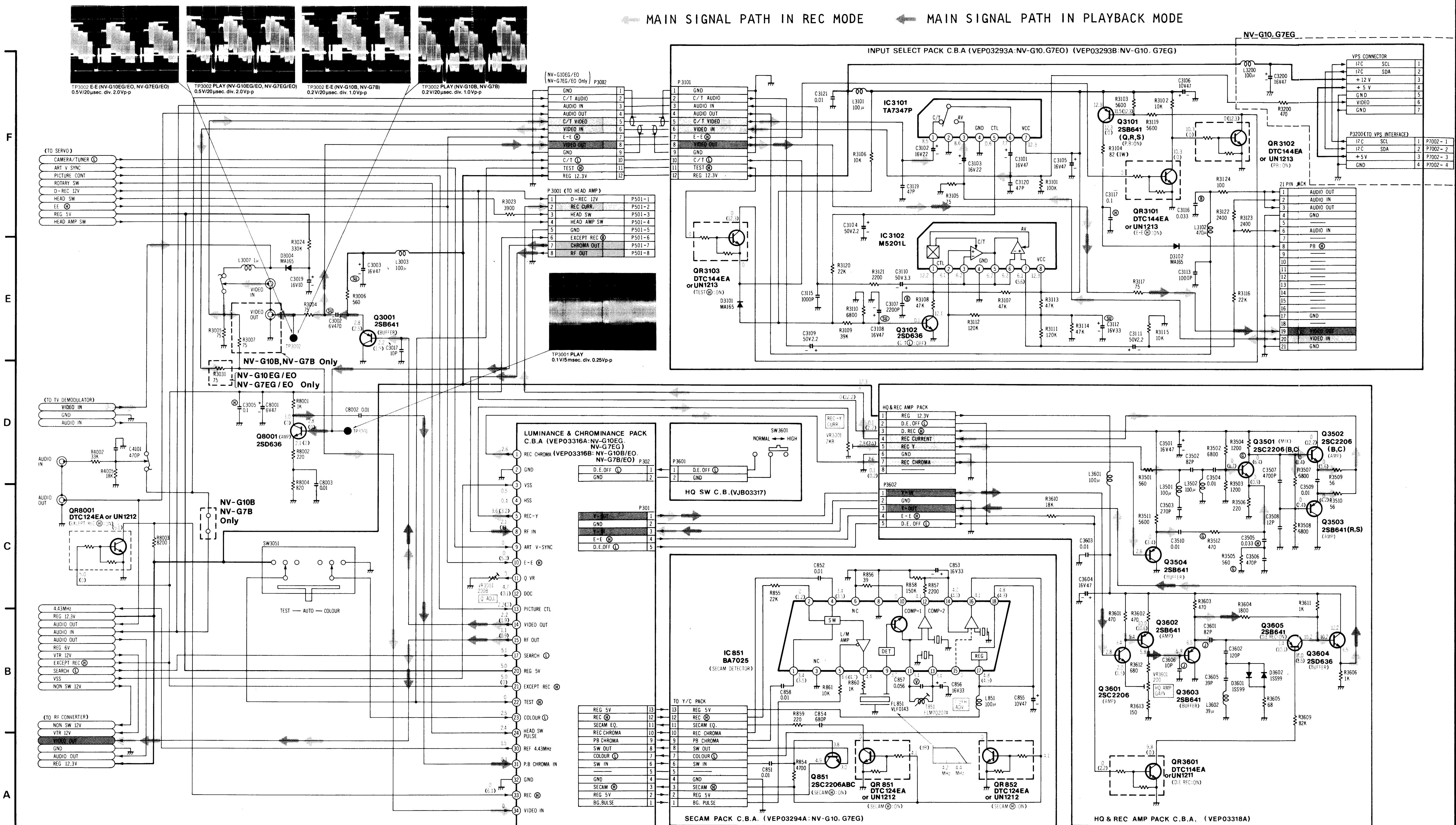
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

SERVO & SERVO PACK SCHEMATIC (NV-G7)	
Transistor	
Q201	G-9
Q203	G-4
Q204	F-9
Transistor & Resistor	
QR271	A-3
QR208	E-4
QR2001	D-12
QR2002	G-11
Integrated Circuit	
IC201	G-6
IC203	E-9
IC205	A-4
IC206	D-3
IC207	F-4
IC2001	B-8
Test Point	
TP2001	D-2
TP2002	B-2
TP2003	F-5
TP2004	E-4
TP2015	F-10
TP2020	B-9
TP2021	C-9
Adjustment	
VR2001	E-2
VR2002	D-2
VR2003	A-4
Connector	
P201	E-10
P2002	G-12
P6002	C-12

ADDRESS INFORMATION

Next Page:
LUMINANCE & CHROMINANCE Section

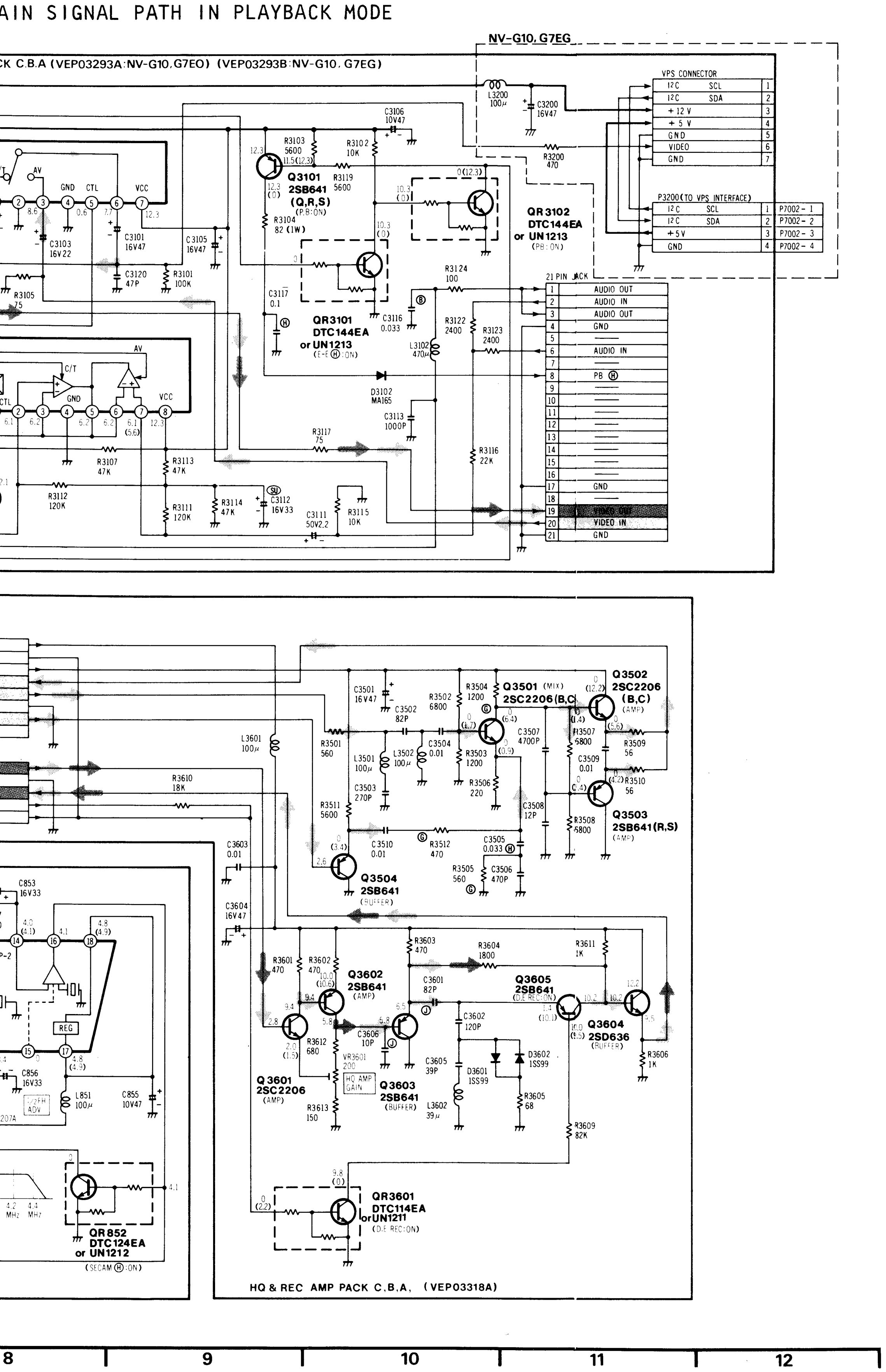
3-14. LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM



MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
TP3002 E-E (NV-G10EG/EO, NV-G7EG/EO) 0.5V/20μsec. div. 2.0Vp-p
TP3002 PLAY (NV-G10EG/EO, NV-G7EG/EO) 0.5V/20μsec. div. 2.0Vp-p
TP3002 E-E (NV-G10B, NV-G7B) 0.2V/20μsec. div. 1.0Vp-p
TP3002 PLAY (NV-G10B, NV-G7B) 0.2V/20μsec. div. 1.0Vp-p
TP3001 PLAY 0.1V/5msec. div. 0.25Vp-p
NV-G10, G7EG
INPUT SELECT PACK C.B.A (VEP03293A:NV-G10, G7EO) (VEP03293B:NV-G10, G7EG)
IC3101 TA7347P
IC3102 M5201L
Q3101 2SB641 (Q,R,S)
QR3101 DTC144EA or UN1213
QR3102 DTC144EA or UN1213
QR3103 DTC144EA or UN1213
Q3102 2SD636
VPS CONNECTOR
P3200 (TO VPS INTERFACE)
21 PIN JACK
(TO SERVO)
CAMERA/TUNER Ⓛ
ART V SYNC
PICTURE CONT
ROTARY SW
D-REC 12V
HEAD SW
EE Ⓗ
REG 5V
HEAD AMP SW
P3001 (TO HEAD AMP)
Q3001 2SB641 (BUFFER)
NV-G10B, NV-G7B Only
NV-G10EG/EO NV-G7EG/EO Only
(TO TV DEMODULATOR)
VIDEO IN
GND
AUDIO IN
Q8001 2SD636
QR8001 DTC124EA or UN1212
AUDIO IN
AUDIO OUT
SW3051
TEST — AUTO — COLOUR
(TO RF CONVERTER)
LUMINANCE & CHROMINANCE PACK C.B.A (VEP03316A:NV-G10EG, NV-G7EG) (VEP03316B: NV-G10B/EO, NV-G7B/EO)
HQ SW C.B.(VJB03317)
SW3601 NORMAL HIGH
HQ & REC AMP PACK
Q3501 2SC2206(B,C)
Q3502 2SC2206 (B,C)
Q3503 2SB641(R,S)
Q3504 2SB641
Q3601 2SC2206
Q3602 2SB641
Q3603 2SB641
Q3604 2SD636
Q3605 2SB641
QR3601 DTC114EA or UN1211
IC851 BA7025 (SECAM DETECTOR)
Q851 2SC2206ABC
QR851 DTC124EA or UN1212
QR852 DTC124EA or UN1212
TO Y/C PACK
SECAM PACK C.B.A. (VEP03294A: NV-G10, G7EG)
HQ & REC AMP PACK C.B.A. (VEP03318A)
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
10
11
12

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

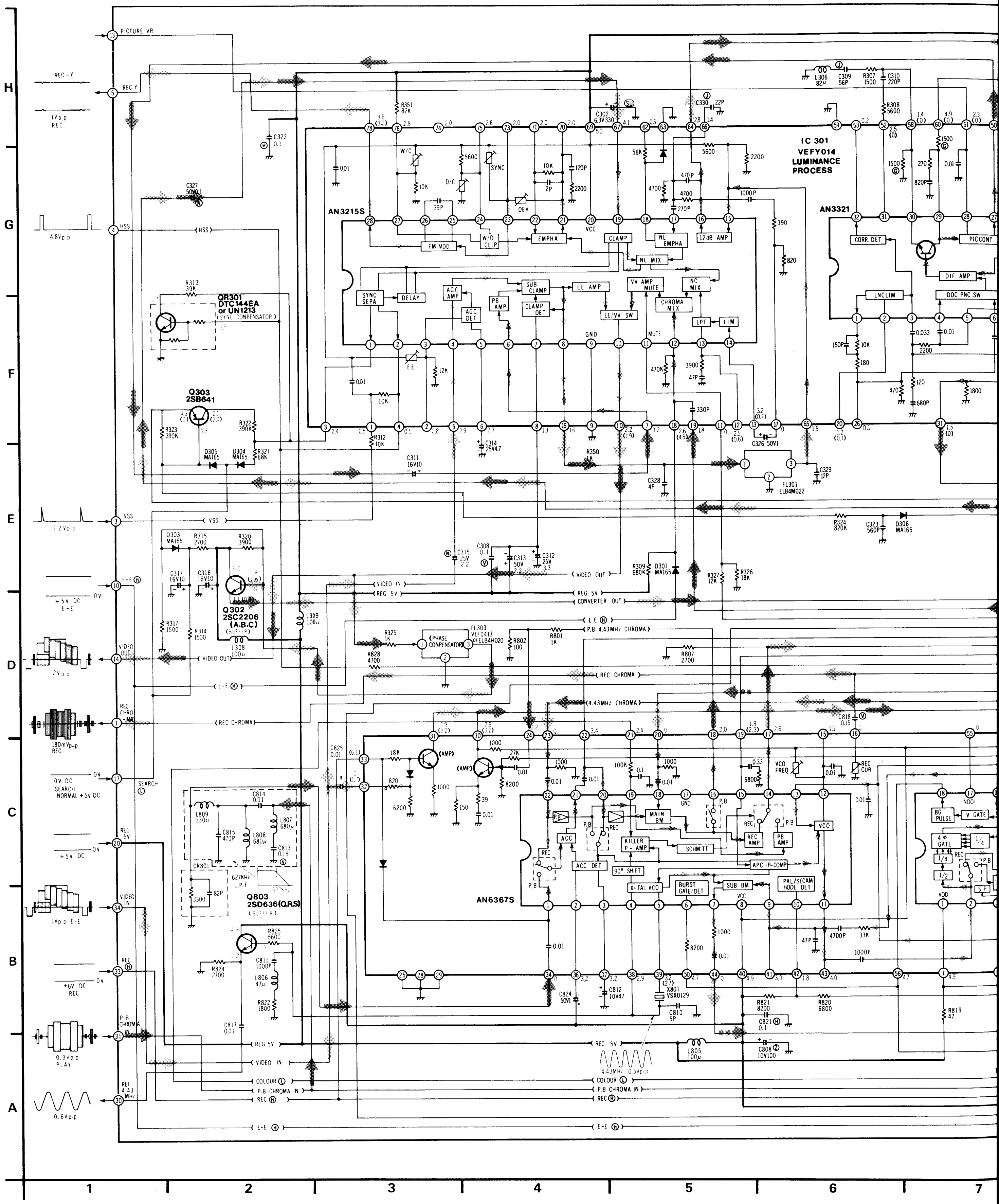
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.


AIN SIGNAL PATH IN PLAYBACK MODE
CK C.B.A (VEP03293A:NV-G10.G7EO) (VEP03293B:NV-G10.G7EG)
NV-G10.G7EG
VPS CONNECTOR
P3200(TO VPS INTERFACE)
21 PIN JACK
Q3101 2SB641 (Q,R,S)
QR3101 DTC144EA or UN1213
QR3102 DTC144EA or UN1213
Q3501 2SC2206(B,C)
Q3502 2SC2206 (B,C)
Q3503 2SB641(R,S)
Q3504 2SB641
Q3601 2SC2206
Q3602 2SB641
Q3603 2SB641
Q3604 2SD636
Q3605 2SB641
QR3601 DTC114EA or UN1211
QR852 DTC124EA or UN1212
HQ & REC AMP PACK C.B.A. (VEP03318A)
8
9
10
11
12

LUMINANCE & CHROMINANCE SCHEMATIC DIAGRAM	
Transistor	
Q851	A-7
Q3001	E-3
Q3101	F-9
Q3102	E-8
Q3501	D-11
Q3502	D-11
Q3503	C-11
Q3504	C-10
Q3601	B-9
Q3602	B-10
Q3603	B-10
Q3604	B-11
Q3605	B-11
Q8001	D-3
Transistor & Resistor	
QR851	A-7
QR852	A-8
QR3101	F-10
QR3102	F-11
QR3103	E-8
QR3601	A-10
QR8001	C-1
Integrated Circuit	
IC851	B-6
IC3101	F-8
IC3102	E-8
Test Point	
TP3001	D-3
TP3002	E-3
Adjustment	
T851	B-8
VR3001	D-7
VR3051	C-4
VR3601	B-10
Connector	
P301	C-6
P302	D-6
P3001	F-5
P3002	F-5
P3101	F-6
P3200	F-11
P3601	D-6
P3602	C-8

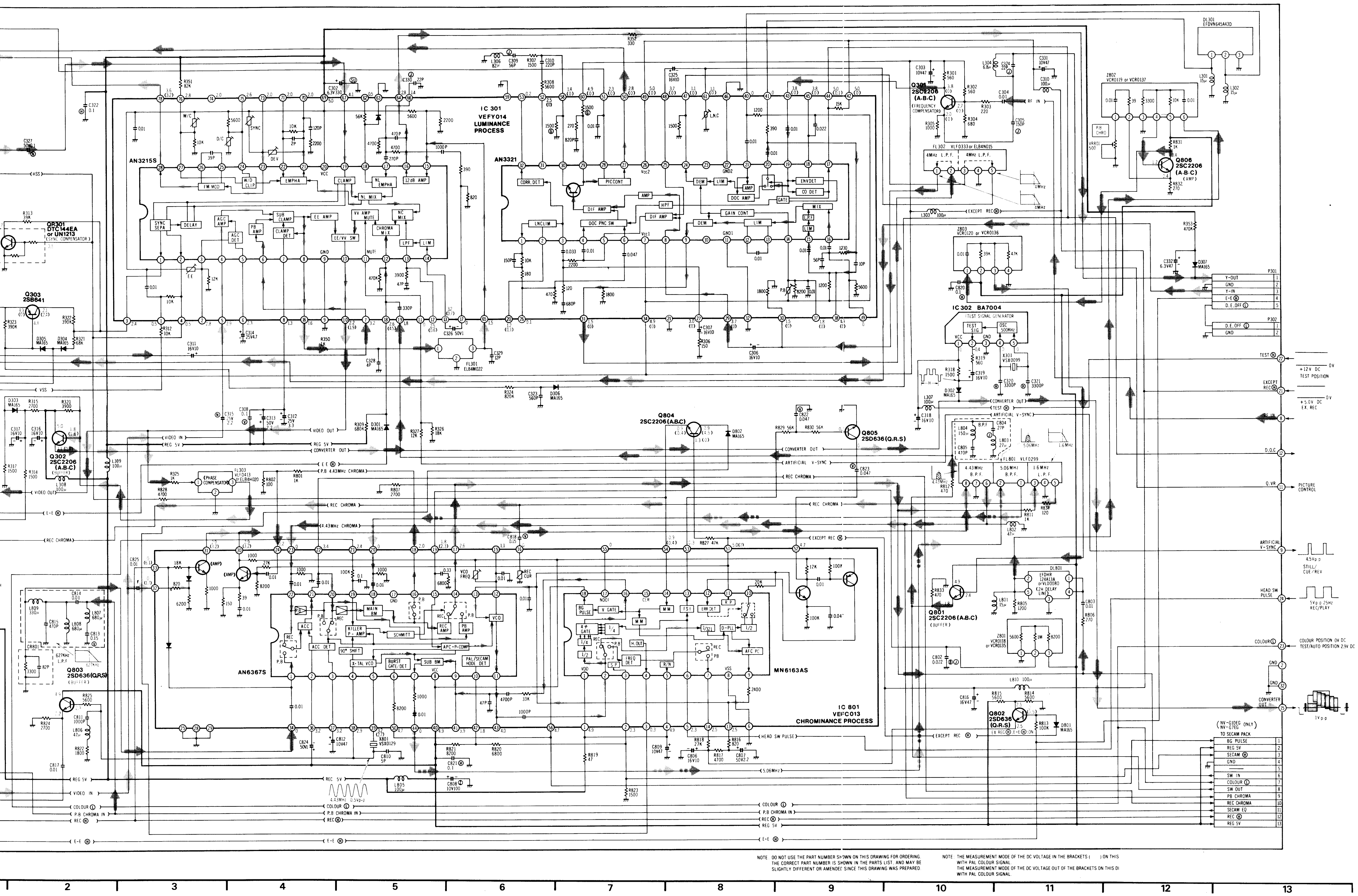
ADDRESS INFORMATION

3-15. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM


H
G
F
E
D
C
B
A
PICTURE VR
REC.Y
HSS
VSS
VIDEO OUT
REC CHROMA
SEARCH
P.B CHROMA
REF 4.43 MHz
IC 301 VEFY014 LUMINANCE PROCESS
AN3215S
AN3321
AN6367S
QR301 DTC144EA or UN1213
Q302 2SC2206 (A,B,C)
Q303 2SB641
Q803 2SD636(Q,R,S)
1
2
3
4
5
6
7

ANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM

- MAIN SIGNAL PATH IN REC MODE
- MAIN SIGNAL PATH IN PLAYBACK MODE
- 5.06MHz PHASE ROTATIONAL SIGNAL PATH IN REC MODE
- 5.06MHz PHASE ROTATIONAL SIGNAL PATH IN PLAYBACK MODE


IC 301
VEFY014
LUMINANCE
PROCESS
AN3215S
AN3321
IC 302 BA7004
TEST SIGNAL GENERATOR
IC 801
VEFC013
CHROMINANCE PROCESS
AN6367S
MN6163AS
QR301
DTC144EA
or UN1213
(SYNC COMPENSATOR)
Q301
2SC2206
(A.B.C)
(FREQUENCY COMPENSATOR)
Q302
2SC2206
(A.B.C)
(BUFFER)
Q303
2SB641
Q801
2SC2206(A.B.C)
(BUFFER)
Q802
2SD636
(Q.R.S)
Q803
2SD636(Q.R.S)
(BUFFER)
Q804
2SC2206(A.B.C)
Q805
2SD636(Q.R.S)
Q806
2SC2206
(A.B.C)
(AMP)
DL301
EFDVN645A43D
DL801
EFDHR124A13A
or VLD0080
CHROMA DELAY LINE
FL301
ELB4M022
FL302 VLF0333 or ELB4N015
FL303
VLF0413
or ELB4H020
FL801 VLF0299
X301
VSX0099
X801
VSX0129
VR801
P301
P302
P801
Y-OUT
GND
Y-IN
E-E Ⓗ
D.E.OFF Ⓛ
TEST
EXCEPT REC Ⓗ
D.O.C
Q.VR
PICTURE CONTROL
ARTIFICIAL V-SYNC
HEAD SW PULSE
COLOUR Ⓛ
CONVERTER OUT
(NV-G10EG ONLY)
(NV-G7EG)
TO SECAM PACK
BG PULSE
REG 5V
SECAM Ⓗ
SW IN
SW OUT
PB CHROMA
REC CHROMA
SECAM EQ
REC Ⓗ
REG 5V
VIDEO IN
VIDEO OUT
P.B 4.43MHz CHROMA
REC CHROMA
4.43MHz CHROMA
5.06MHz
1
2
3
4
5
6
7
8
9
10
11
12
13

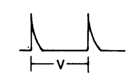
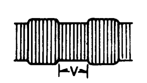
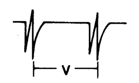
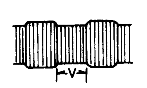
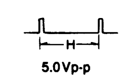
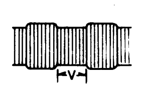
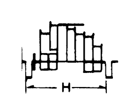
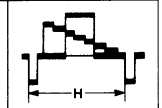
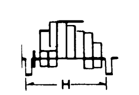
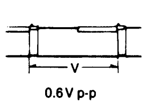
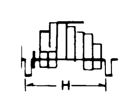
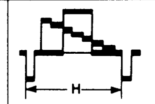
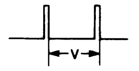
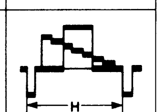
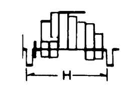
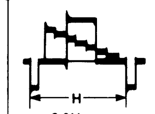
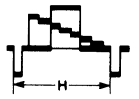
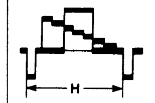
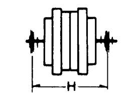
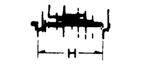
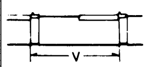
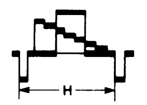
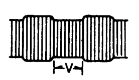
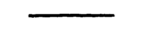
NOTE. DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS
WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DI
WITH PAL COLOUR SIGNAL.

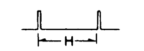
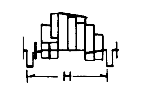
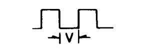
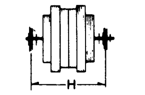
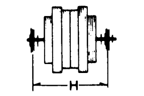
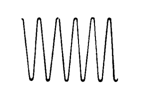
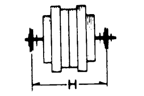
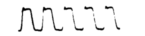
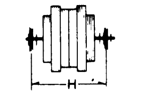
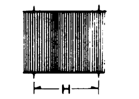
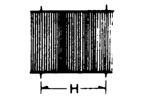
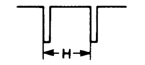
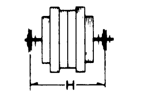
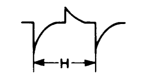
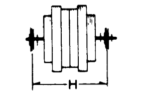
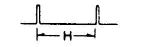
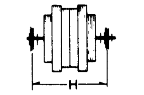
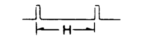
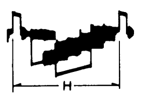
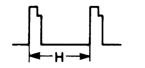
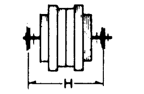
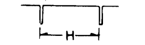
LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM	
Transistor	
Q301	H-10
Q302	D-2
Q303	F-2
Q801	C-10
Q802	B-11
Q803	B-2
Q804	E-8
Q805	E-9
Q806	G-12
Transistor & Resistor	
QR301	F-2
Integrated Circuit	
IC301	H-6
IC302	F-10
IC801	B-9
Adjustment	
VR801	G-11
Connector	
P301	F-13
P302	F-13
P801	F-13

ADDRESS INFORMATION

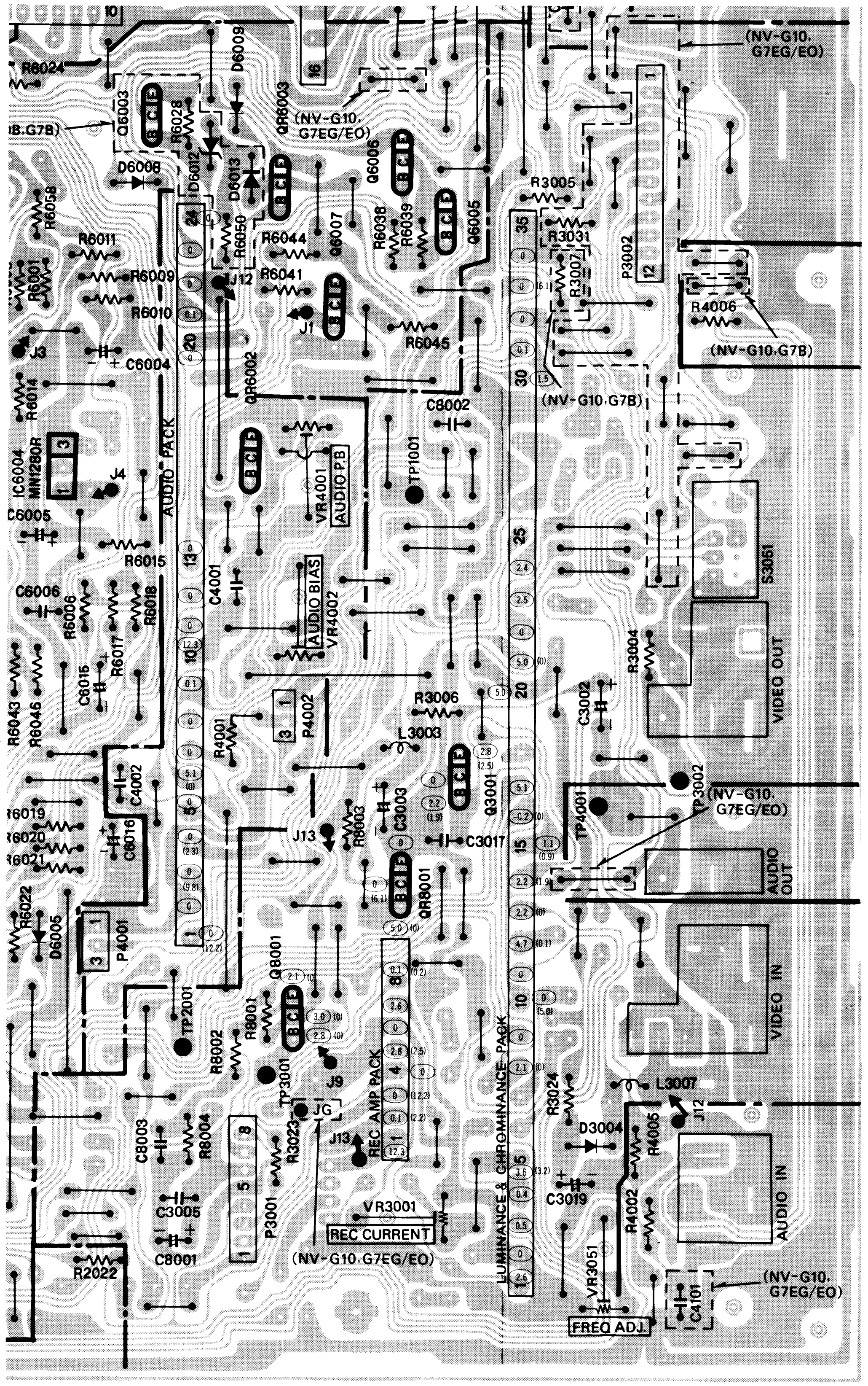
IC301 (VEFY014)

PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
1	 2.5Vp-p (REC/P.B)	40	 0.1V p-p (P.B)
3	 0.8Vp-p (REC/P.B)	41	 0.4V p-p (P.B)
4	 5.0Vp-p (REC/P.B)	43	 0.7V p-p (P.B)
5	 1.0Vp-p (REC/P.B)	47	 0.6V p-p (P.B)
7	 0.3Vp-p (P.B)	50	 0.2V p-p (P.B)
10	 2.2Vp-p (REC/P.B)	64	 1.2V p-p (REC/P.B)
11	 2.7V p-p (PAUSE/ STILL)	65	 0.3V p-p (REC/P.B)
16	 0.6V p-p (REC)	66	 0.6V p-p (REC/P.B)
16	 0.6V p-p (P.B)	67	 1.2V p-p (REC/P.B)
18, 19	 0.5V p-p (P.B)	70	 0.8V p-p (REC)
31	 0.7V p-p (P.B)	71	 0.3V p-p (REC)
39	 0.25V p-p (P.B)	78	 1.0V p-p (REC)

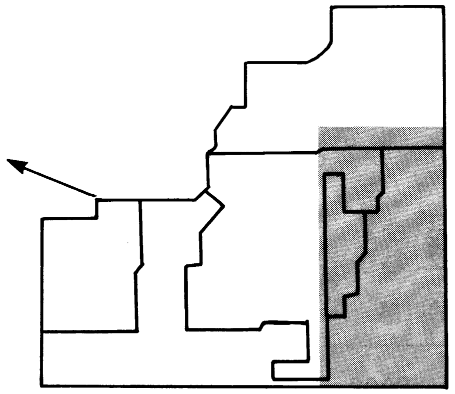
IC801 (VEFC013)

PIN NO.	WAVEFORM	PIN NO.	WAVEFORM
3	 5.0V p-p (REC/P.B)	32	 1.0V p-p (REC/P.B)
5	 5.0V p-p (REC/P.B)	34	 0.3V p-p (P.B)
16	 0.2V p-p (REC)	38	 0.6V p-p (REC/P.B)
17	 1.2V p-p (REC) 1.0V p-p (P.B)	39	 0.7V p-p (REC/P.B)
18	 0.6V p-p (REC) 1.5V p-p (P.B)	44	 0.35V p-p (REC/P.B)
20	 0.2V p-p (REC/P.B)	50	 5V p-p (REC/P.B)
22	 0.6V p-p (REC) 0.5V p-p (P.B)	52	 0.8V p-p (P.B)
23	 0.25V p-p (REC) 0.6V p-p (P.B)	53	 5.0V p-p (REC/P.B)
24	 150mV p-p (P.B)	54	 5.0V p-p (REC)
30, 31	 1.1V p-p (REC)	54	 4.5V p-p (P.B)
30, 31	 1.0V p-p (P.B)	56	 5.0Vp-p (REC/P.B)

3-16. LUMINANCE & CHROMINANCE Section In Main Circuit Board (VEP06333F: NV-G10EG) (VEP06333H: [illegible]) (VEP06333G: [illegible] O) (VEP06333P: NV-G7EG) (VEP06333L: NV-G7B) (VEP06333N: NV-G7EO)

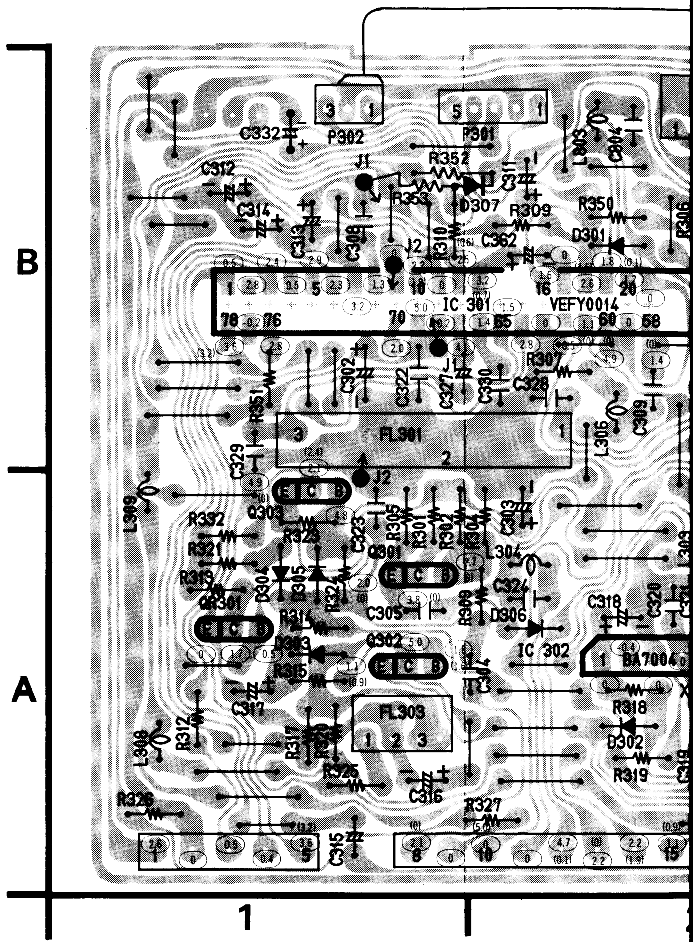


(NV-G10, G7EG/EO)
R6024
Q6003
D6009
R6028
D6012
D6013
QR6003
(NV-G10, G7EG/EO)
Q6006
Q6007
Q6005
R6038
R6039
R3005
R3031
R3007
P3002
R4006
(NV-G10, G7B)
D6008
R6058
R6011
R6009
R6010
R6050
R6044
R6041
J12
J1
R6001
J3
C6004
R6014
R6045
QR6002
C8002
(NV-G10, G7B)
IC6004 MN1280R
J4
C6005
AUDIO PACK
VR4001
AUDIO P.B
TP1001
R6015
C6006
R6006
R6017
R6018
C4001
AUDIO BIAS
VR4002
C6015
R6043
R6046
R3006
L3003
R3004
C3002
VIDEO OUT
S3061
R4001
P4002
C4002
C6016
Q3001
C3003
R8003
J13
C3017
TP4001
TP3002
(NV-G10, G7EG/EO)
AUDIO OUT
R6019
R6020
R6021
R6022
D6005
P4001
TP2001
Q8001
QR8001
R8002
R8001
TP3001
J9
JG
J13
REC AMP PACK
C8003
R8004
R3023
LUMINANCE & CHROMINANCE PACK
R3024
L3007
J12
D3004
R4005
VIDEO IN
C3019
R4002
AUDIO IN
C3005
C8001
R2022
P3001
VR3001
REC CURRENT
(NV-G10, G7EG/EO)
R3051
VR3051
FREQ ADJ.
C4101
(NV-G10, G7EG/EO)



3-17. LUMINANCE & CHROMINANC

(VEP03316A:

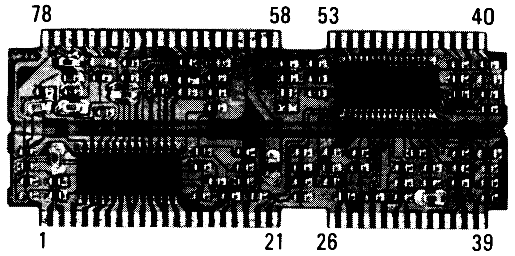


B
A
1
P302
P301
C332
J1
R352
R353
D307
R309
R350
D301
C312
C314
C313
C310
J2
IC 301
VEFY0014
R307
C302
C322
C327
C330
C328
R351
FL301
C329
J2
L306
L309
R332
Q303
R321
R323
Q301
C323
R305
C303
L304
R319
D304
QR301
C305
C324
D306
C318
C320
R311
Q302
IC 302
BA7004
C317
R315
FL303
R318
D302
R319
R312
R325
C316
R327
R326
C315

LUMINANCE & CHROMINANCE PACK CIRCUIT BOARD	
Transistor	
Q301	A-1
Q302	A-1
Q303	A-1
Q801	B-3
Q802	A-2
Q803	A-4
Q804	A-2
Q805	A-3
Q806	B-3
Transistor & Resistor	
QR301	A-1
Integrated Circuit	
IC301	B-2
IC302	A-2
IC801	A-3
Adjustment	
VR801	B-4

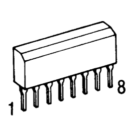
ADDRESS INFORMATION

ICs & TRANSISTORs INFORMATION

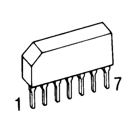


78
58
53
40
1
21
26
39

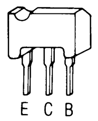
VEFY014



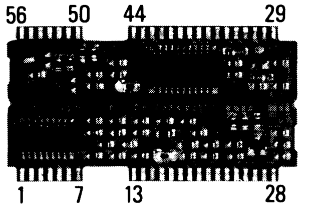
M5201L
(NV-G10, G7EG/EO)



TA7347P
(NV-G10, G7EG/EO)

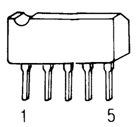


2SD636
2SB641
2SC2206

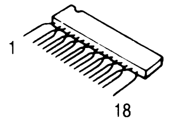


56
50
44
29
1
7
13
28

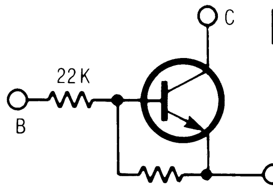
VEFC013



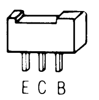
BA7004



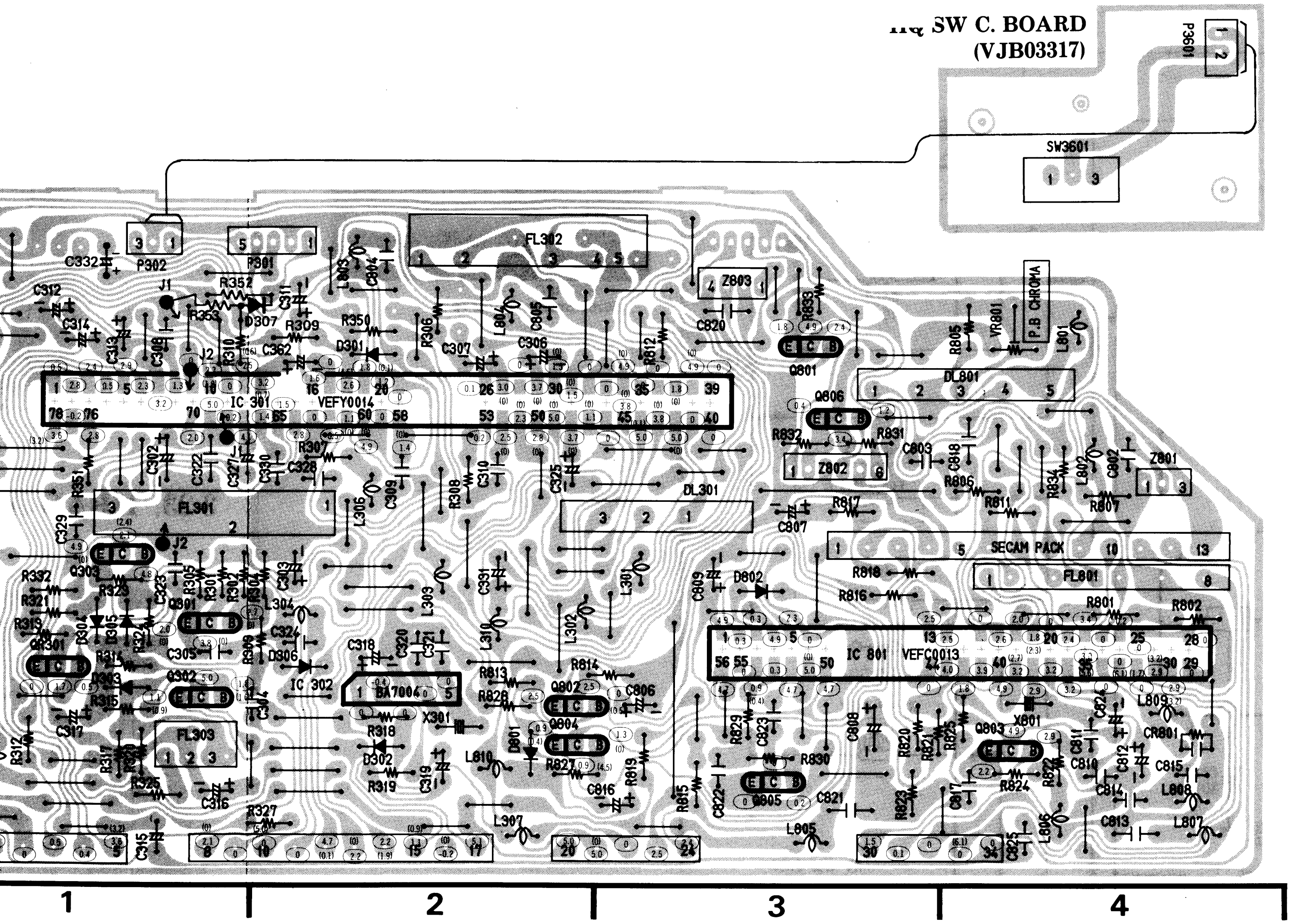
BA7025
(NV-G10, G7EG)



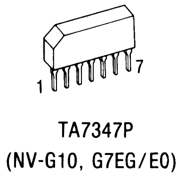
DTC124EA

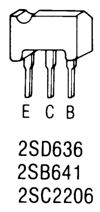


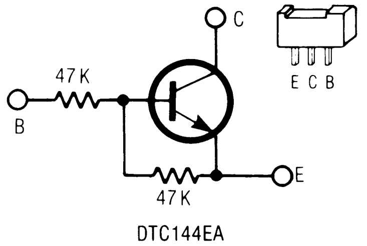
MINANCE & CHROMINANCE PACK CIRCUIT BOARD
P03316A:

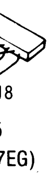

HQ SW C. BOARD
(VJB03317)
P3601
SW3601
P302
P301
FL302
IC 301 VEFY0014
FL301
DL301
DL801
SECAM PACK
FL801
IC 801 VEFC0013
IC 302 BA7004
FL303
P.B CHROMA
1
2
3
4

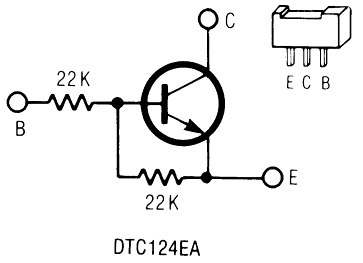
5201L
, G7EG/EO)

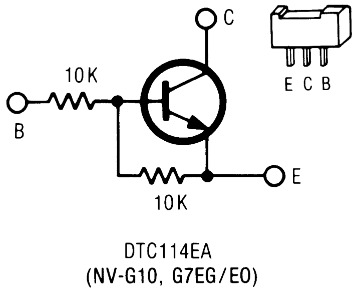

1
7
TA7347P
(NV-G10, G7EG/EO)


E C B
2SD636
2SB641
2SC2206

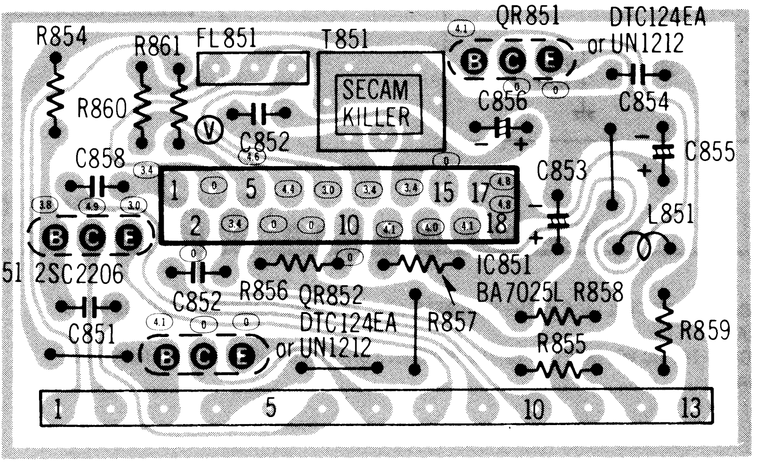

C
47K
B
47K
E
E C B
DTC144EA



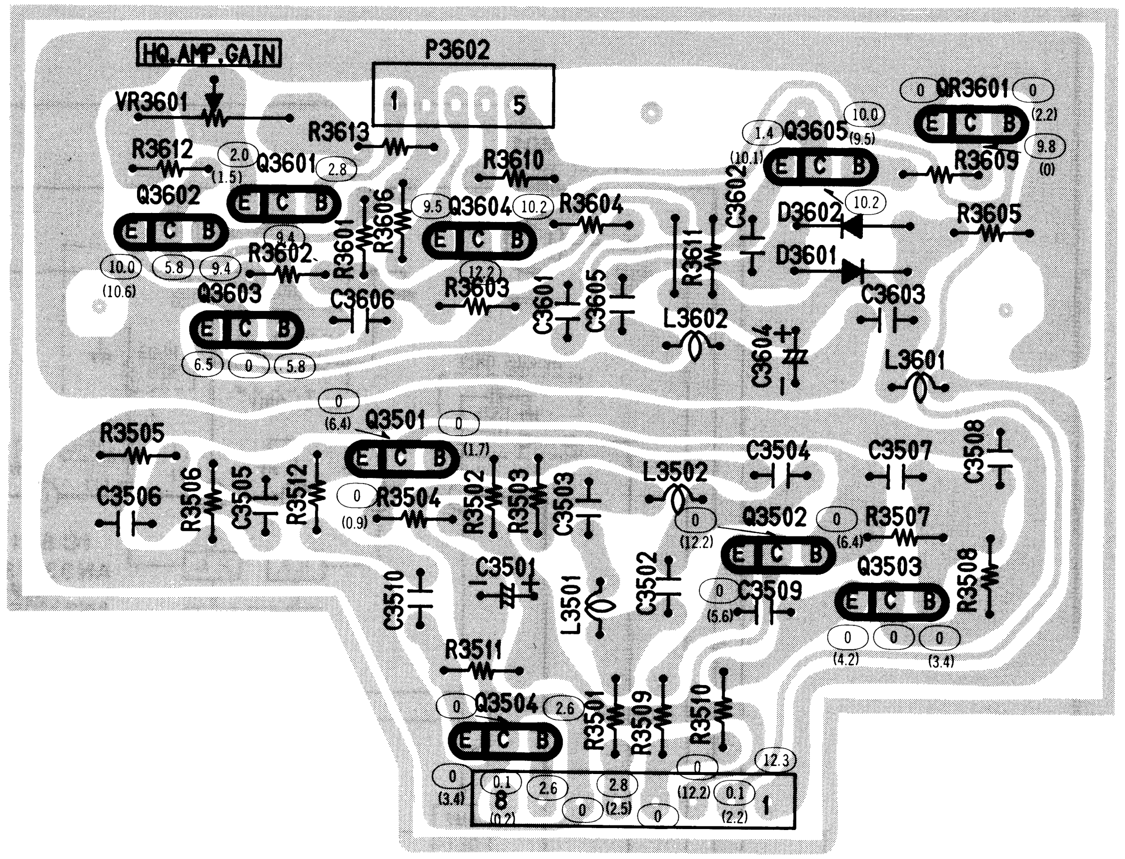

C
22K
B
22K
E
E C B
DTC124EA


C
10K
B
10K
E
E C B
DTC114EA
(NV-G10, G7EG/EO)

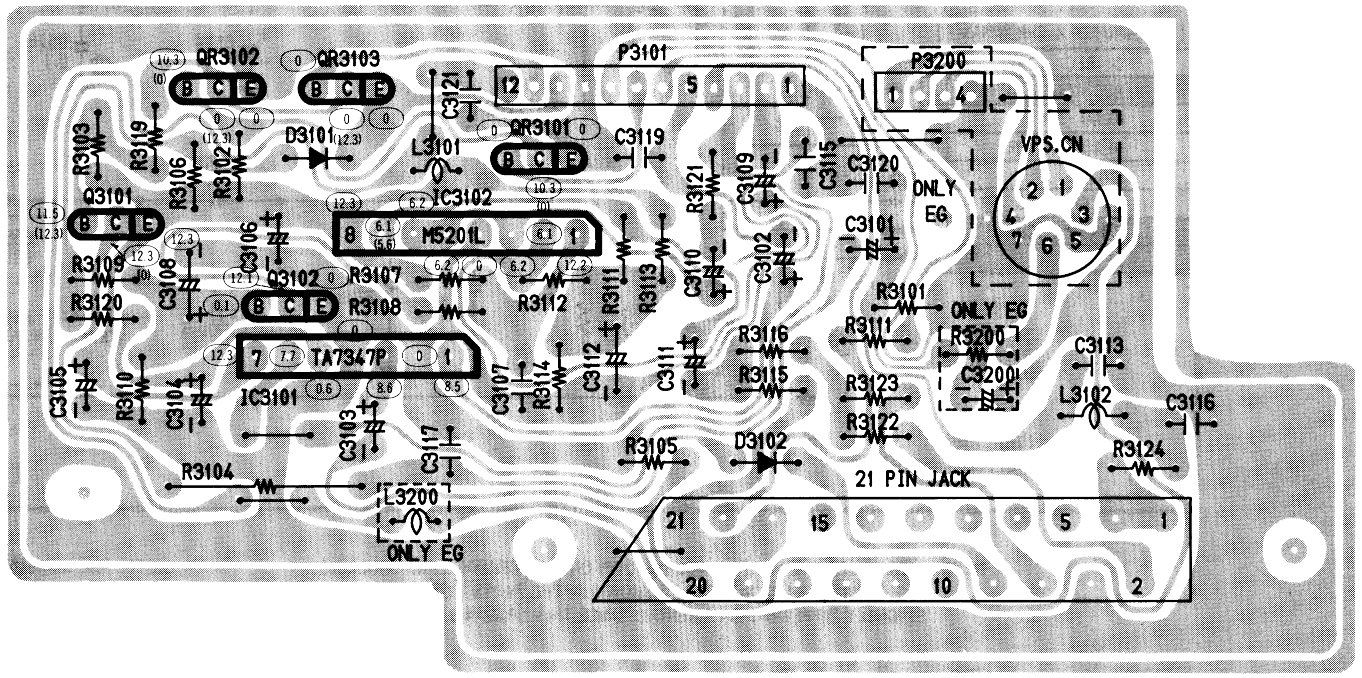
3-18. SECAM PACK CIRCUIT BOARD (VEP03294A


R854
R861
FL851
T851
SECAM KILLER
QR851
DTC124EA
or UN1212
R860
C852
C856
C854
C858
C853
C855
Q851 2SC2206
L851
C852
R856
QR852
DTC124EA
or UN1212
R857
IC851
BA7025L
R858
C851
R855
R859
1
5
10
13

3-19. HQ & REC AMP PACK CIRCUIT BOARD (VEP03318A)

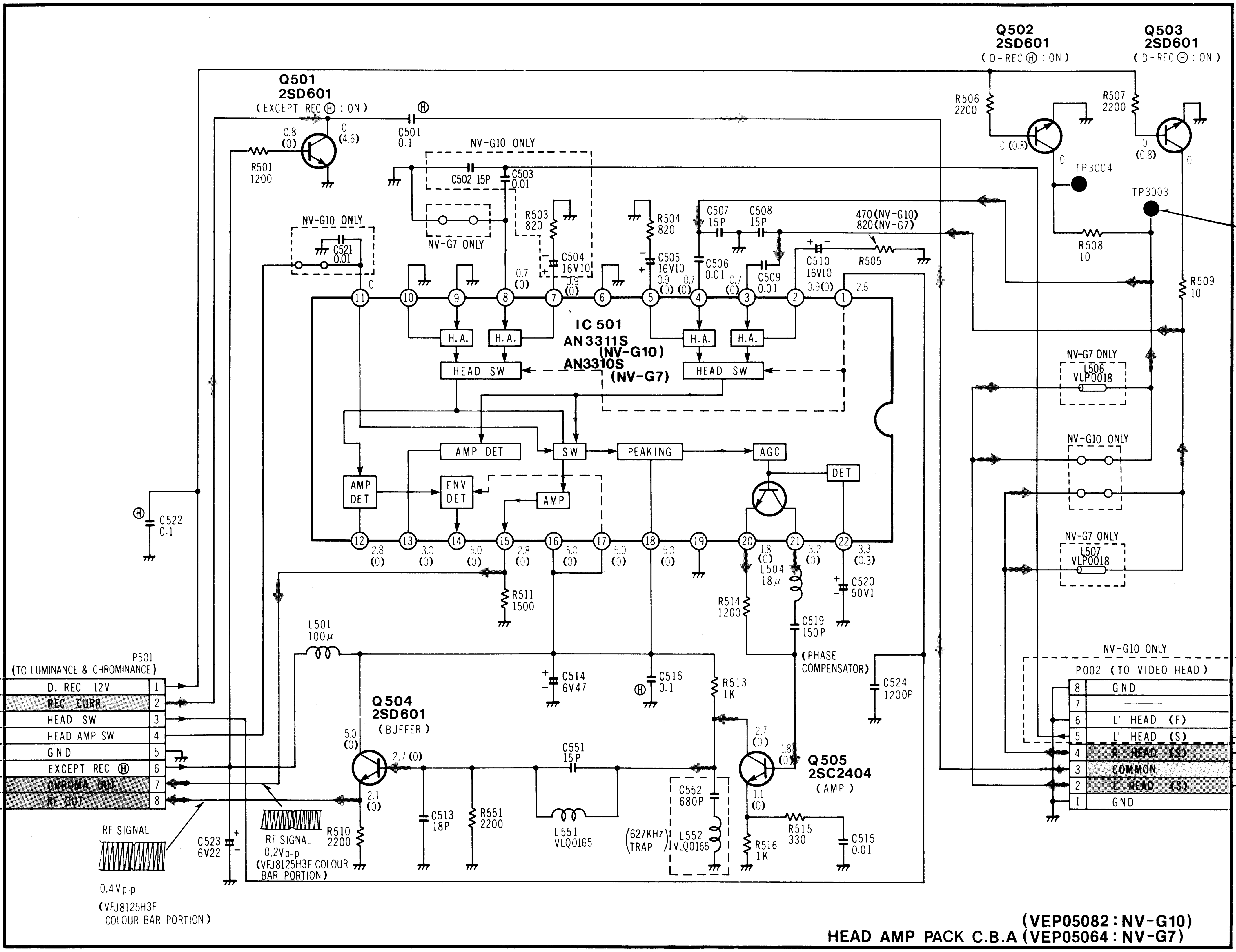

HQ.AMP.GAIN
P3602
VR3601
R3613
QR3601
R3612
Q3601
Q3605
R3609
Q3602
R3610
Q3604
R3604
D3602
R3605
R3602
D3601
Q3603
C3606
R3603
C3603
L3602
L3601
R3505
Q3501
C3504
C3507
C3506
R3504
L3502
Q3502
R3507
C3501
C3509
Q3503
R3511
Q3504
C3510

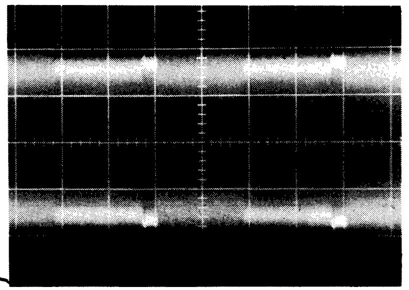
3-20. INPUT SELECT PACK CIRCUIT BOARD
(VEP03293B:


QR3102
QR3103
P3101
P3200
D3101
QR3101
C3119
VPS.CN
Q3101
IC3102
M5201L
ONLY EG
R3109
Q3102
R3107
R3108
TA7347P
IC3101
R3101
ONLY EG
R5200
C3200
C3113
L3102
C3116
R3124
R3105
D3102
R3104
L3200
ONLY EG
21 PIN JACK
21
15
5
1
20
10
2

3-21. HEAD AMP PACK SCHEMATIC DIAGRAM

⇐ MAIN SIGNAL PATH IN REC MODE ⇐ MAIN SIGNAL PATH IN PLAYBACK MODE


Q501
2SD601
(EXCEPT REC Ⓗ : ON)
R501
1200
C501
0.1
NV-G10 ONLY
C502 15P
C503
0.01
R503
820
NV-G7 ONLY
C521
0.01
C504
16V10
R504
820
C505
16V10
C506
0.01
C507
15P
C508
15P
C509
0.01
C510
16V10
470 (NV-G10)
820 (NV-G7)
R505
IC 501
AN3311S
(NV-G10)
AN3310S
(NV-G7)
H. A.
HEAD SW
AMP DET
SW
PEAKING
AGC
DET
ENV DET
AMP
C522
0.1
R511
1500
L504
18μ
R514
1200
C520
50V1
C519
150P
(PHASE COMPENSATOR)
C524
1200P
L501
100μ
C514
6V47
C516
0.1
R513
1K
Q504
2SD601
(BUFFER)
C551
15P
C513
18P
R551
2200
L551
VLQ0165
C552
680P
(627KHz TRAP)
L552
VLQ0166
Q505
2SC2404
(AMP)
R515
330
R516
1K
C515
0.01
R510
2200
C523
6V22
RF SIGNAL
0.4Vp-p
(VFJ8125H3F COLOUR BAR PORTION)
RF SIGNAL
0.2Vp-p
(VFJ8125H3F COLOUR BAR PORTION)
P501
(TO LUMINANCE & CHROMINANCE)
P3001 - 1 D. REC 12V 1
P3001 - 2 REC CURR. 2
P3001 - 3 HEAD SW 3
P3001 - 4 HEAD AMP SW 4
P3001 - 5 GND 5
P3001 - 6 EXCEPT REC Ⓗ 6
P3001 - 7 CHROMA OUT 7
P3001 - 8 RF OUT 8
Q502
2SD601
(D-REC Ⓗ : ON)
Q503
2SD601
(D-REC Ⓗ : ON)
R506
2200
R507
2200
TP3004
TP3003
R508
10
R509
10
NV-G7 ONLY
L506
VLP0018
NV-G10 ONLY
NV-G7 ONLY
L507
VLP0018
NV-G10 ONLY
P002 (TO VIDEO HEAD)
8 GND
7 ———
6 L' HEAD (F)
5 L' HEAD (S)
4 R HEAD (S)
3 COMMON
2 L HEAD (S)
1 GND
L'
R
L
HEAD AMP PACK C.B.A (VEP05082 : NV-G10)
(VEP05064 : NV-G7)



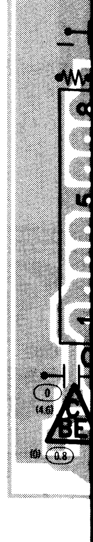
TP3003 REC
50mV/5msec. div. 0.2Vp-p

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

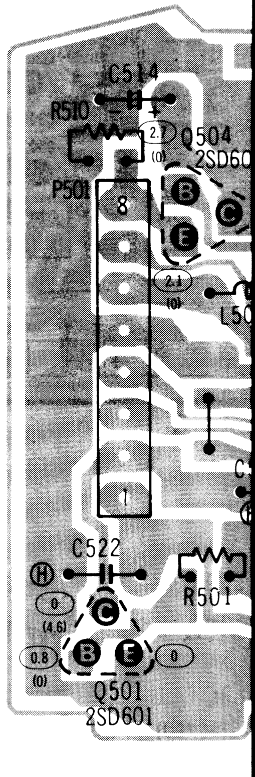
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL.

Back Page:
LUMINANCE & CHROMINANCE Section

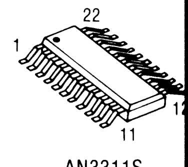
3-22. HEAD A



3-23. HEAD A

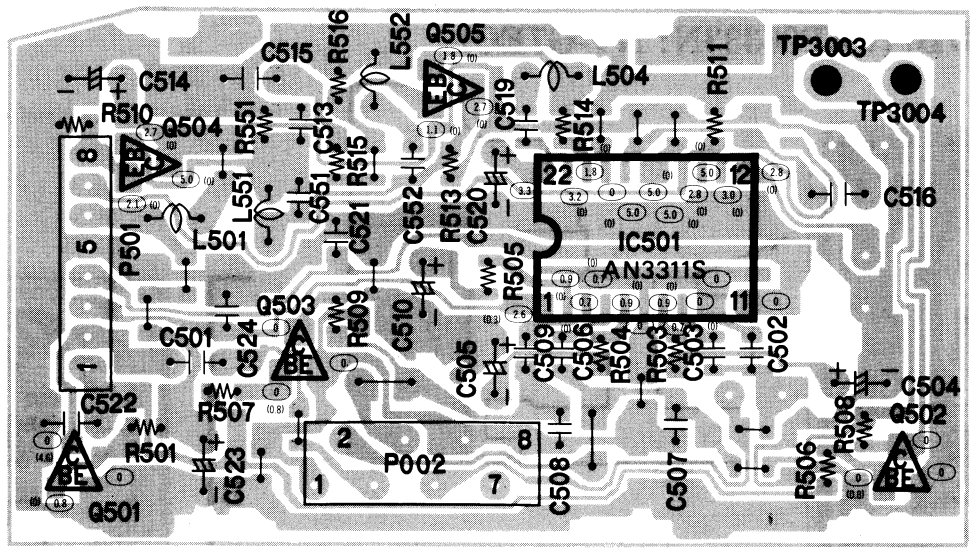

C514
R510
Q504
2SD6
P501
8
1
C522
Ⓗ
R501
Q501
2SD601
L50

ICs & TRANSIST



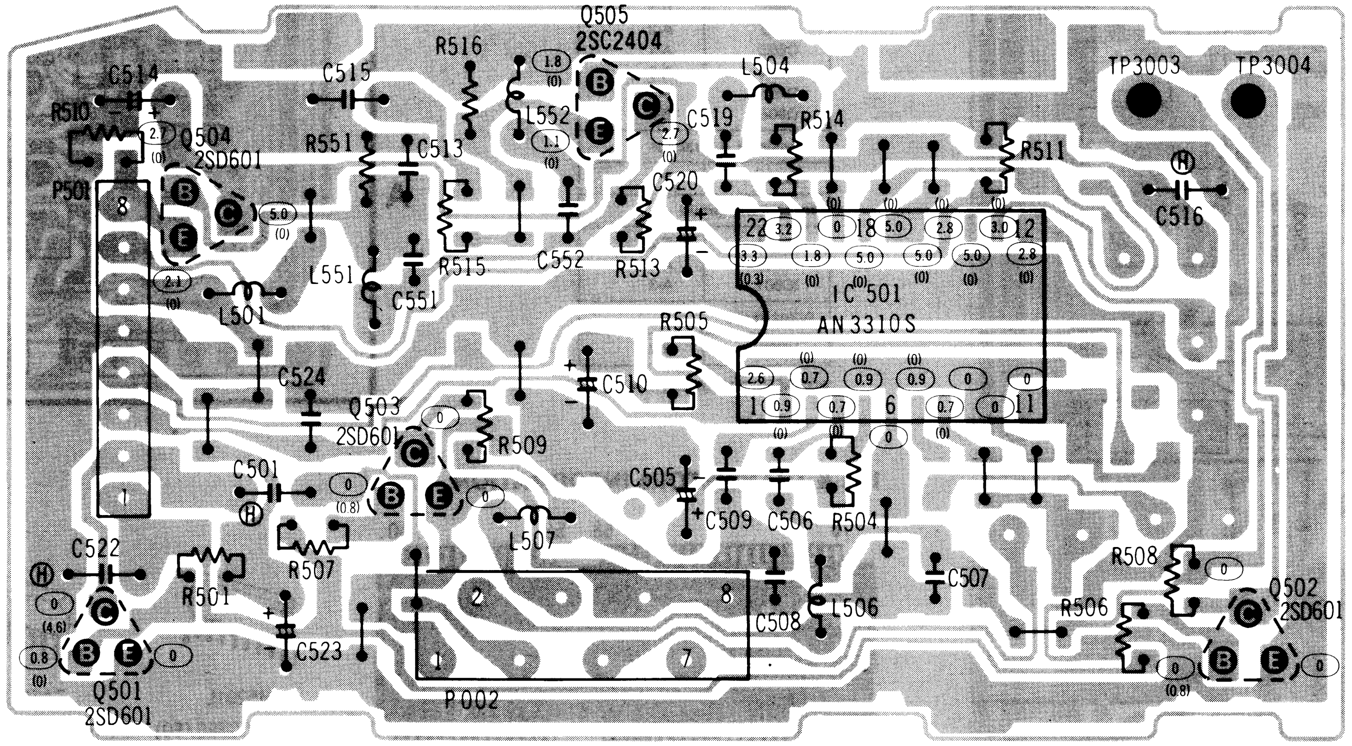
AN3311S

3-22. HEAD AMP PACK CIRCUIT BOARD (VEP05082



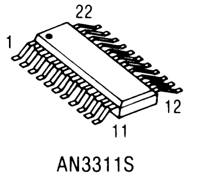
C514
R510
Q504
C515
R516
L552
Q505
L504
R511
TP3003
TP3004
R551
C513
R515
C519
R514
C516
P501
L551
C551
C521
C552
R513
C520
IC501
AN3311S
L501
R505
Q503
C501
C524
R509
C510
C505
C509
C506
R504
R503
C503
C502
C504
C522
R507
Q502
R501
C523
P002
C508
C507
R506
R508
Q501

3-23. HEAD AMP PACK CIRCUIT BOARD (VEP05064: NV-G7)

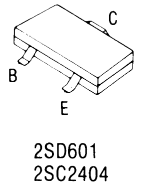


Q505
2SC2404
R516
C514
C515
L552
L504
R510
Q504
2SD601
R551
C513
C519
R514
R511
TP3003
TP3004
P501
C520
C516
C552
R513
R515
L551
C551
L501
IC501
AN3310S
R505
C524
C510
Q503
2SD601
R509
C501
C505
C509
C506
R504
L507
C522
R507
R501
R508
C507
C508
L506
R506
Q502
2SD601
C523
P002
Q501
2SD601

ICs & TRANSISTORs INFORMATION

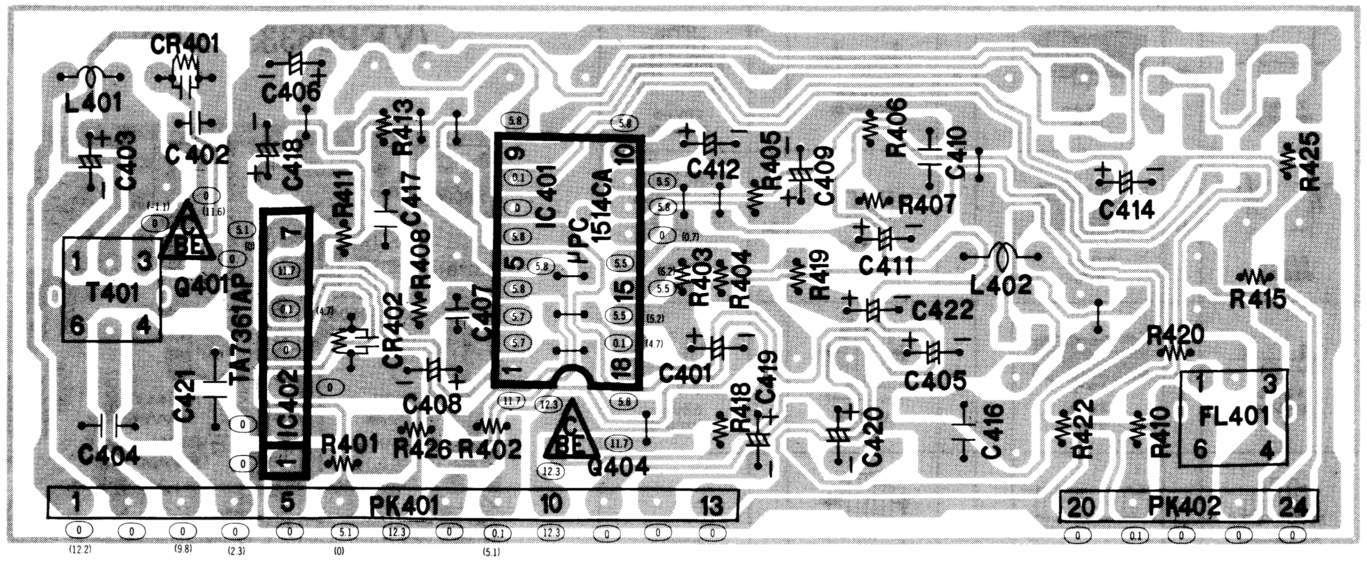


22
1
12
11
AN3311S



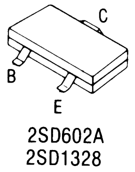
C
B
E
2SD601
2SC2404

3-24. AUDIO PACK CIRCUIT BOARD (VEP04138)

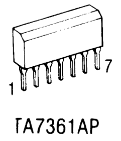


CR401
L401
C406
C403
C402
R413
C418
C417
R411
R408
IC401
µPC 1514CA
C412
R405
C409
R406
C410
R407
C414
R425
Q401
T401
IC402
TA7361AP
CR402
C407
R403
R404
R419
C411
C422
L402
R415
R420
C421
C408
C401
C419
C405
FL401
C404
R401
R426
R402
Q404
R418
C420
C416
R422
R410
PK401
PK402

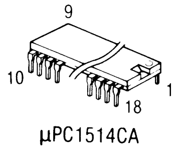
ICs & TRANSISTORs INFORMATION



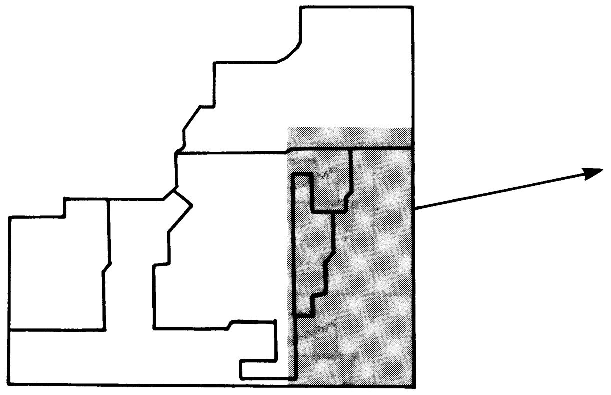
C
B
E
2SD602A
2SD1328



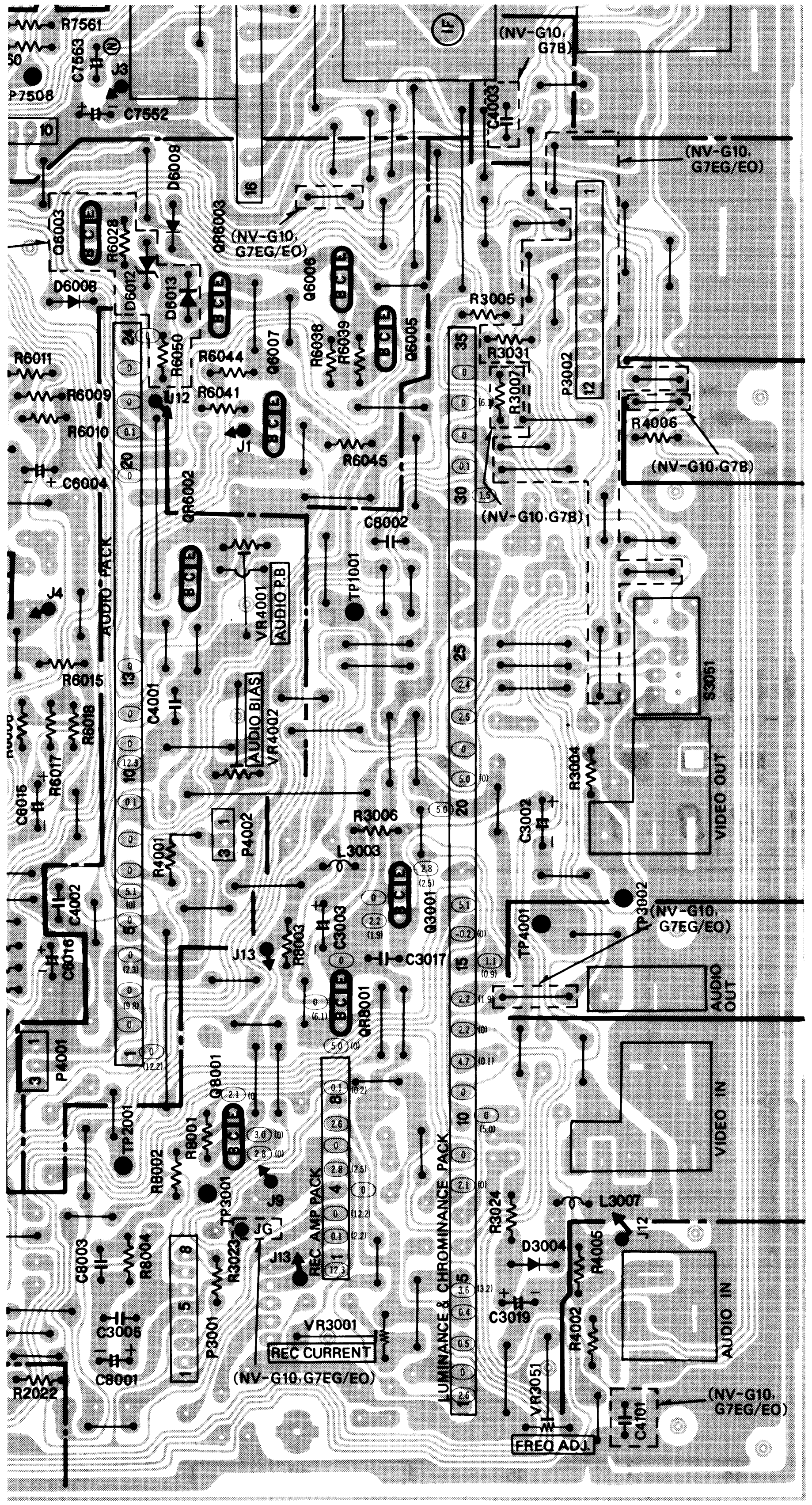
1
7
TA7361AP



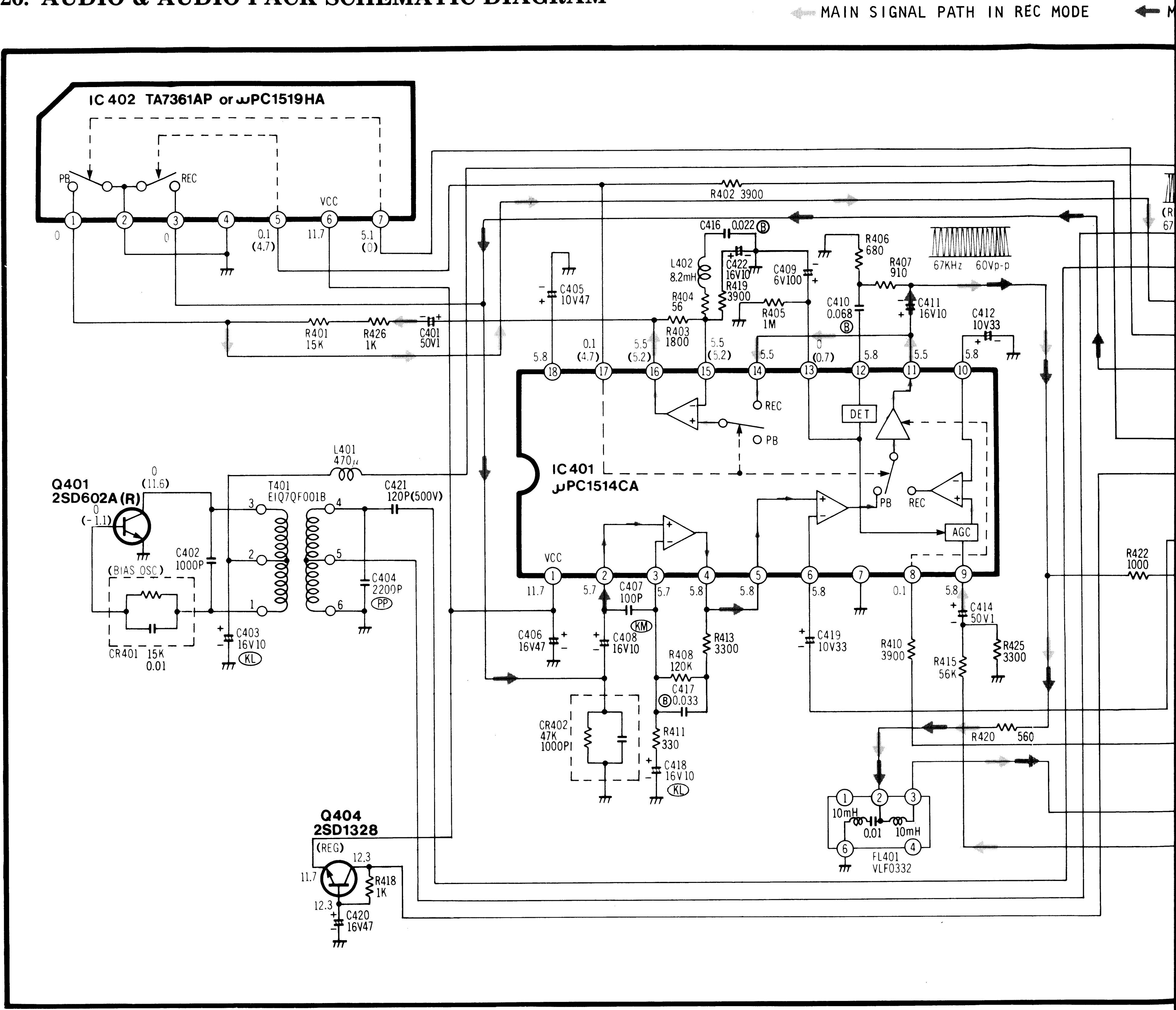
9
10
18
1
µPC1514CA



3-25. AUDIO Section In Main Circuit Board (VEP06333F: NV-G10EG) (VEP06333H: NV-G10B) (VEP06333G: NV-G10EO) (VEP06333P: NV-G7EG) (VEP06333L: NV-G7B) (VEP06333N: NV-G7EO)


R7561
C7563
J3
P7508
C7552
(NV-G10, G7B)
C4003
(NV-G10, G7EG/EO)
D6009
QR6003
Q6003
R6028
D6012
D6013
D6008
(NV-G10, G7EG/EO)
Q6006
R3005
R3031
R3002
R3021
P3002
R6011
R6009
R6010
C6004
R6050
R6044
R6041
J1
Q6007
R6038
R6039
Q6005
R6045
R4006
(NV-G10, G7B)
QR6002
C8002
(NV-G10, G7B)
AUDIO PACK
J4
VR4001 AUDIO P.B
TP1001
R6015
R6017
R6018
C6015
C4001
AUDIO BIAS VR4002
S3051
VIDEO OUT
R3004
R3006
L3003
P4002
R4001
C4002
C6016
J13
R8003
C3003
Q3001
C3017
C3002
TP4001
TP3002
(NV-G10, G7EG/EO)
AUDIO OUT
QR8001
P4001
TP2001
Q8001
R8001
R8002
TP3001
JG
J9
REC AMP PACK
LUMINANCE & CHROMINANCE PACK
R3024
L3007
D3004
J12
R4005
VIDEO IN
C8003
R8004
R3023
J13
C3006
C8001
R2022
P3001
VR3001
REC CURRENT
(NV-G10, G7EG/EO)
C3019
VR3051
R4002
AUDIO IN
C4101
(NV-G10, G7EG/EO)
FREQ ADJ

3-26. AUDIO & AUDIO PACK SCHEMATIC DIAGRAM


MAIN SIGNAL PATH IN REC MODE
IC 402 TA7361AP or μPC1519HA
PB
REC
VCC
R402 3900
C416 0.022
L402 8.2mH
C422 16V10
R419 3900
C409 6V100
R406 680
R407 910
67KHz 60Vp-p
C405 10V47
R404 56
R403 1800
R405 1M
C410 0.068
C411 16V10
C412 10V33
R401 15K
R426 1K
C401 50V1
IC401 μPC1514CA
DET
AGC
L401 470μ
Q401 2SD602A(R)
T401 E1Q7QF001B
C421 120P(500V)
C402 1000P
C404 2200P
(BIAS OSC)
CR401 15K 0.01
C403 16V10
C406 16V47
C407 100P
C408 16V10
R408 120K
R413 3300
C419 10V33
R410 3900
R415 56K
R425 3300
C414 50V1
R422 1000
C417 0.033
CR402 47K 1000P
R411 330
C418 16V10
R420 560
Q404 2SD1328
(REG)
R418 1K
C420 16V47
10mH
0.01
FL401 VLF0332

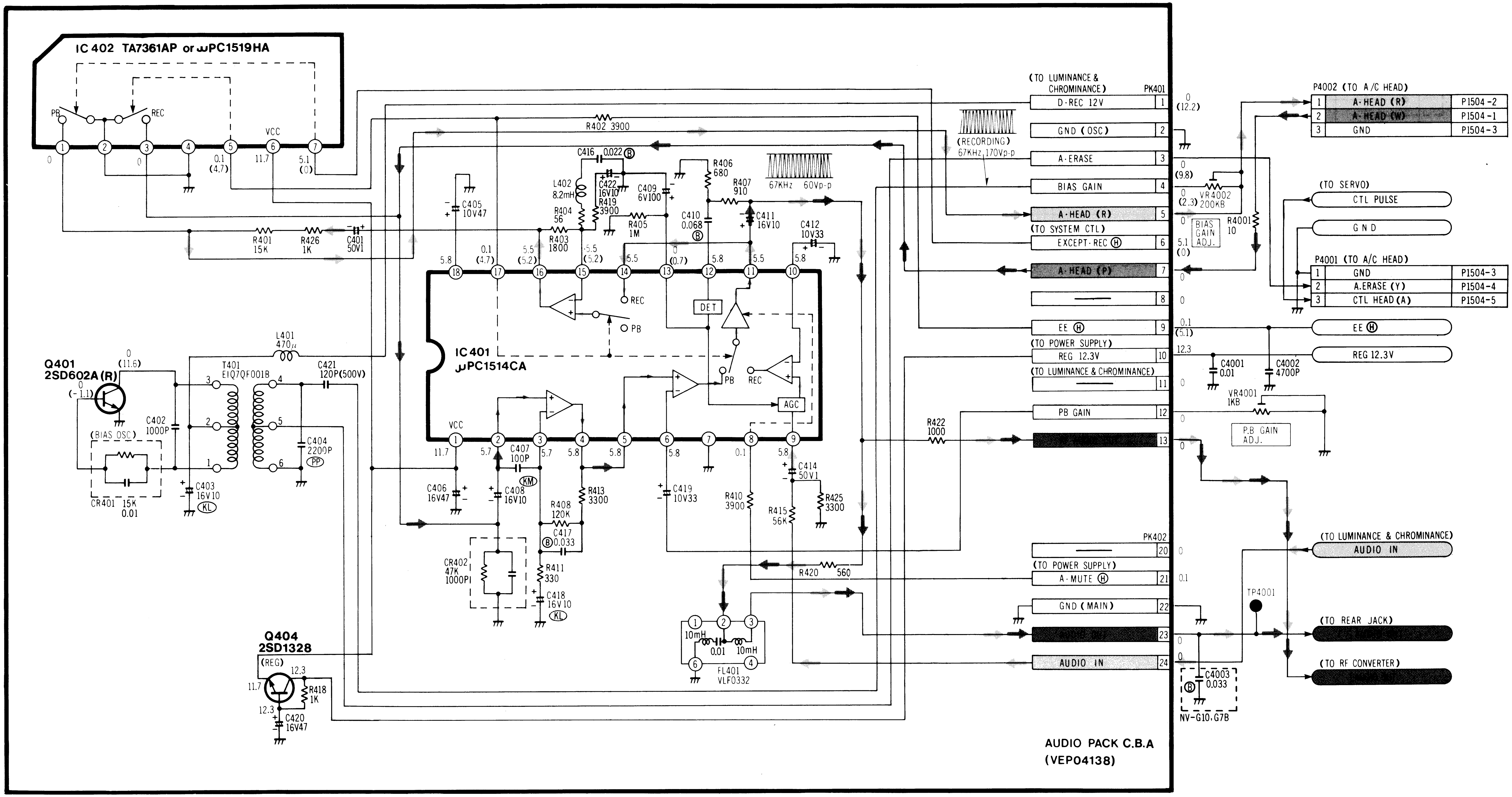
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE. THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-26. AUDIO & AUDIO PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE

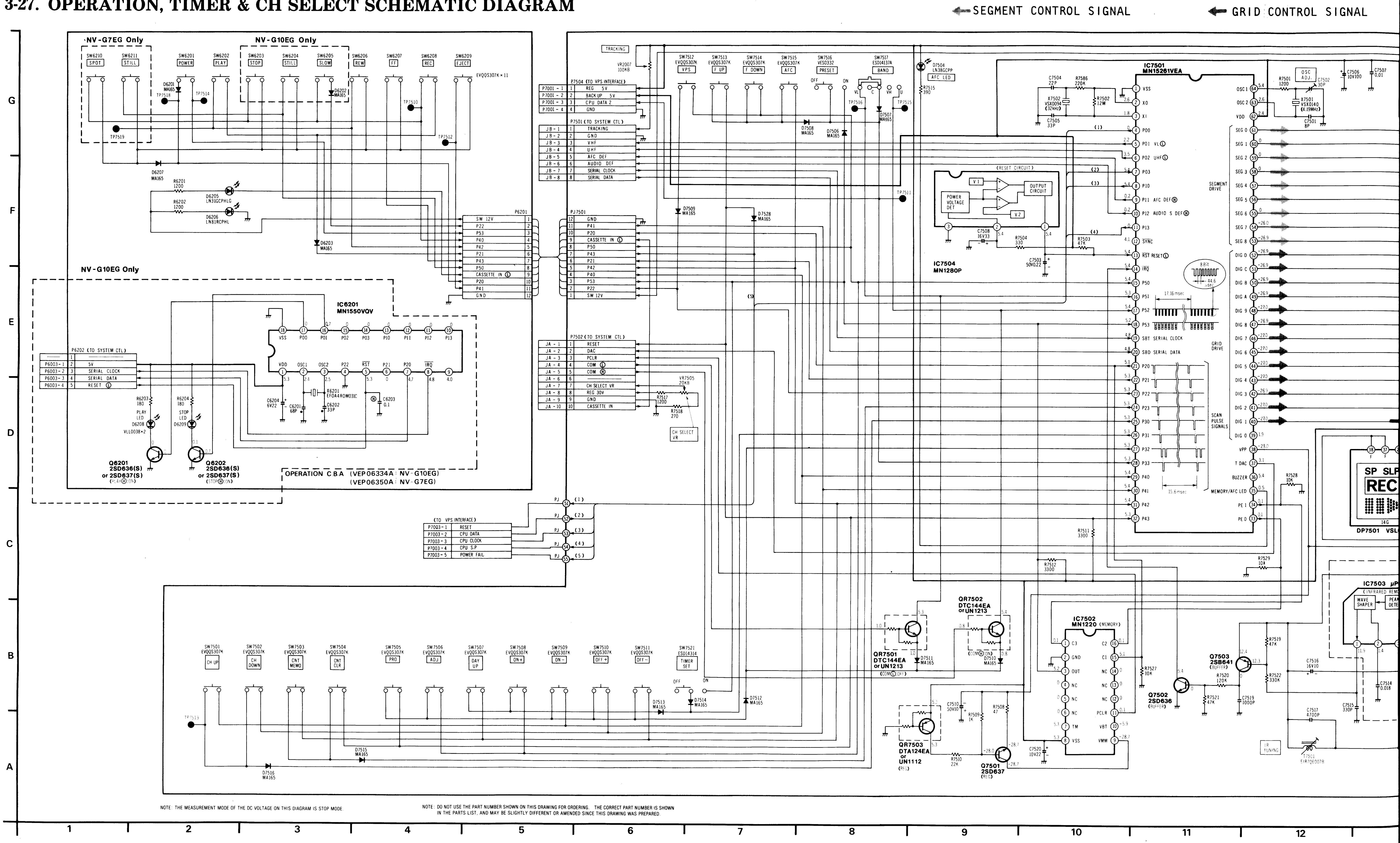

IC 402 TA7361AP or μPC1519HA
PB
REC
VCC
IC 401 μPC1514CA
DET
AGC
Q401 2SD602A (R)
(BIAS OSC)
T401 EIQ7QF001B
L401 470μ
C421 120P(500V)
C404 2200P
C402 1000P
C403 16V10
CR401 15K 0.01
Q404 2SD1328
(REG)
R418 1K
C420 16V47
R401 15K
R426 1K
C401 50V1
R402 3900
C416 0.022
L402 8.2mH
C422 16V10
R419 3900
C409 6V100
R404 56
R403 1800
R405 1M
C405 10V47
R406 680
R407 910
C410 0.068
C411 16V10
C412 10V33
67KHz 60Vp-p
(RECORDING) 67KHz 170Vp-p
C406 16V47
C407 100P
C408 16V10
R408 120K
C417 0.033
R411 330
C418 16V10
CR402 47K 1000P
R413 3300
C419 10V33
R410 3900
R415 56K
C414 50V1
R425 3300
R420 560
R422 1000
FL401 VLF0332
10mH
0.01
(TO LUMINANCE & CHROMINANCE)
PK401
D-REC 12V
GND (OSC)
A-ERASE
BIAS GAIN
A-HEAD (R)
(TO SYSTEM CTL)
EXCEPT-REC Ⓗ
A-HEAD (P)
EE Ⓗ
(TO POWER SUPPLY)
REG 12.3V
(TO LUMINANCE & CHROMINANCE)
PB GAIN
PK402
(TO POWER SUPPLY)
A-MUTE Ⓗ
GND (MAIN)
AUDIO IN
VR4002 200KB
BIAS GAIN ADJ.
R4001 10
C4001 0.01
C4002 4700P
VR4001 1KB
P.B GAIN ADJ.
TP4001
C4003 0.033
NV-G10, G7B
P4002 (TO A/C HEAD)
A-HEAD (R)
A-HEAD (W)
GND
P1504-2
P1504-1
P1504-3
(TO SERVO)
CTL PULSE
GND
P4001 (TO A/C HEAD)
A.ERASE (Y)
CTL HEAD (A)
P1504-4
P1504-5
(TO LUMINANCE & CHROMINANCE)
AUDIO IN
(TO REAR JACK)
(TO RF CONVERTER)
AUDIO PACK C.B.A
(VEP04138)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

Next Page:
OPERATION, TIMER & CH SELECT Section

3-27. OPERATION, TIMER & CH SELECT SCHEMATIC DIAGRAM



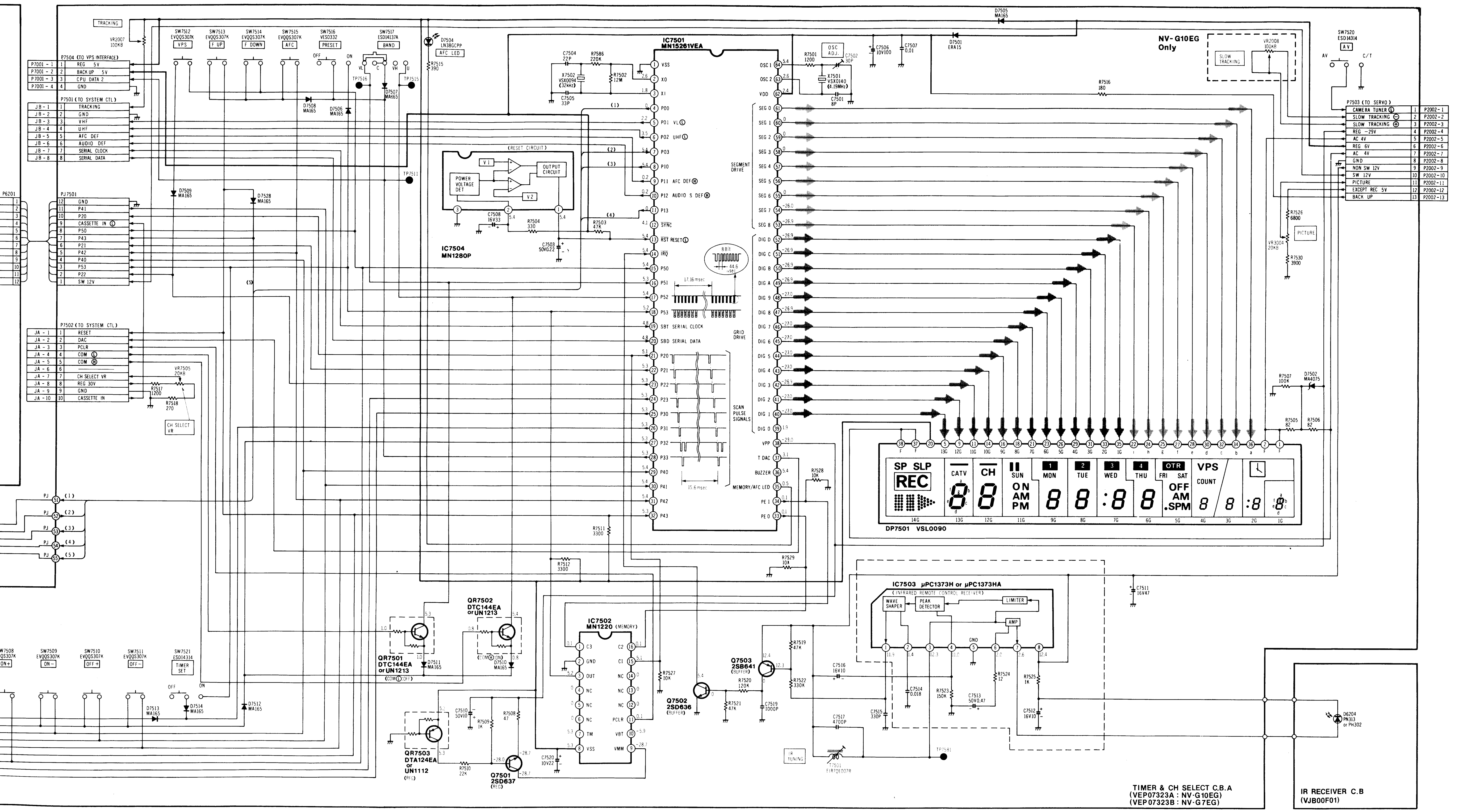
SEGMENT CONTROL SIGNAL
GRID CONTROL SIGNAL
NV-G7EG Only
NV-G10EG Only
SW6210 SPOT
SW6211 STILL
SW6201 POWER
SW6202 PLAY
SW6203 STOP
SW6204 STILL
SW6205 SLOW
SW6206 REW
SW6207 FF
SW6208 REC
SW6209 EJECT
EVQQS307K×11
D6201 MA165
D6202 MA165
D6203 MA165
D6207 MA165
TP7518
TP7514
TP7510
TP7512
TP7519
R6201 1200
R6202 1200
D6205 LN31GCPHLG
D6206 LN81RCPHL
P6201
SW 12V
P22
P53
P40
P42
P21
P43
P50
CASSETTE IN Ⓛ
P20
P41
GND
IC6201 MN1550VQV
VSS
P00
P01
P02
P03
P10
P11
P12
P13
VDD
OSC1
OSC2
P22
RST
P21
P20
IRQ
P6202 (TO SYSTEM CTL)
P6003-1
P6003-2
P6003-3
P6003-4
5V
SERIAL CLOCK
SERIAL DATA
RESET Ⓛ
R6203 180
R6204 180
PLAY LED D6208
STOP LED D6209
VLL0038×2
C6204 6V22
C6201 68P
X6201 EFOA4ROMO31C
C6202 33P
C6203 0.1
Q6201 2SD636(S) or 2SD637(S)
Q6202 2SD636(S) or 2SD637(S)
OPERATION C.B.A (VEP06334A: NV-G10EG) (VEP06350A: NV-G7EG)
TRACKING
VR2007 100KB
P7504 (TO VPS INTERFACE)
P7001-1
P7001-2
P7001-3
P7001-4
REG 5V
BACKUP 5V
CPU DATA 2
GND
P7501 (TO SYSTEM CTL)
JB-1
JB-2
JB-3
JB-4
JB-5
JB-6
JB-7
JB-8
TRACKING
GND
VHF
UHF
AFC DEF
AUDIO DEF
SERIAL CLOCK
SERIAL DATA
PJ7501
P7502 (TO SYSTEM CTL)
JA-1
JA-2
JA-3
JA-4
JA-5
JA-6
JA-7
JA-8
JA-9
JA-10
RESET
DAC
PCLR
COM Ⓛ
COM Ⓗ
CH SELECT VR
REG 30V
GND
CASSETTE IN
VR7505 20KB
R7517 1200
R7518 270
CH SELECT VR
(TO VPS INTERFACE)
P7003-1
P7003-2
P7003-3
P7003-4
P7003-5
RESET
CPU DATA
CPU CLOCK
CPU S.P
POWER FAIL
SW7512 EVQQS307K VPS
SW7513 EVQQS307K F UP
SW7514 EVQQS307K F DOWN
SW7515 EVQQS307K AFC
SW7516 VESD332 PRESET
SW7517 ESD14137A BAND
D7504 LN38GCPP AFC LED
R7515 390
TP7516
TP7515
TP7511
D7507 MA165
D7508 MA165
D7506 MA165
D7509 MA165
D7528 MA165
IC7504 MN1280P
(RESET CIRCUIT)
POWER VOLTAGE DET
OUTPUT CIRCUIT
C7508 16V33
R7504 330
C7503 50V0.22
R7503 47K
IC7501 MN15261VEA
C7504 22P
R7586 220K
X7502 VSX0094 (32KHz)
R7502 12M
C7505 33P
R7501 1200
OSC ADJ.
C7502 30P
X7501 VSX0140 (4.19MHz)
C7501 8P
C7506 10V100
C7507 0.01
VSS
XO
XI
P00
P01 VLⓁ
P02 UHFⓁ
P03
P10
P11 AFC DEFⒽ
P12 AUDIO S DEFⒽ
P13
SYNC
RST RESETⓁ
IRQ
P50
P51
P52
P53
SBT SERIAL CLOCK
SBD SERIAL DATA
P20
P21
P22
P23
P30
P31
P32
P33
P40
P41
P42
P43
OSC1
OSC2
VDD
SEG 0
SEG 1
SEG 2
SEG 3
SEG 4
SEG 5
SEG 6
SEG 7
SEG 8
SEGMENT DRIVE
DIG D
DIG C
DIG B
DIG A
DIG 9
DIG 8
DIG 7
DIG 6
DIG 5
DIG 4
DIG 3
DIG 2
DIG 1
DIG 0
GRID DRIVE
SCAN PULSE SIGNALS
VPP
T DAC
BUZZER
MEMORY/AFC LED
PE 1
PE 0
17.16msec
15.6msec
R7528 10K
R7511 3300
R7512 3300
R7529 10K
DP7501 VSL
SP SLP
REC
IC7503 μP
(INFRARED REMO
WAVE SHAPER
PEAK DETE
QR7501 DTC144EA or UN1213
(COMⓁOFF)
QR7502 DTC144EA or UN1213
(COMⒽON)
D7510 MA165
D7511 MA165
QR7503 DTA124EA or UN1112
(REC)
C7510 50V10
R7509 1K
R7508 47
R7510 22K
Q7501 2SD637
(REC)
C7520 10V22
IC7502 MN1220 (MEMORY)
C3
GND
OUT
NC
NC
NC
TM
VSS
C2
C1
NC
NC
NC
PCLR
VBT
VMM
R7527 10K
Q7502 2SD636 (BUFFER)
R7521 47K
Q7503 2SB641 (BUFFER)
R7520 120K
C7519 1000P
R7519 47K
R7522 330K
C7516 16V10
C7514 0.018
C7515 330P
C7517 4700P
IR TUNING
T7501 EIR7E0078
SW7501 EVQQS307K CH UP
SW7502 EVQQS307K CH DOWN
SW7503 EVQQS307K CNT MEMO
SW7504 EVQQS307K CNT CLR
SW7505 EVQQS307K PRO
SW7506 EVQQS307K ADJ
SW7507 EVQQS307K DAY UP
SW7508 EVQQS307K ON+
SW7509 EVQQS307K ON−
SW7510 EVQQS307K OFF+
SW7511 EVQQS307K OFF−
SW7521 ESD14314 TIMER SET
OFF
ON
TP7513
D7513 MA165
D7514 MA165
D7512 MA165
D7515 MA165
D7516 MA165
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

AGRAM

SEGMENT CONTROL SIGNAL   GRID CONTROL SIGNAL


IC7501 MN15261VEA
IC7504 MN1280P
IC7502 MN1220 (MEMORY)
IC7503 μPC1373H or μPC1373HA (INFRARED REMOTE CONTROL RECEIVER)
WAVE SHAPER
PEAK DETECTOR
LIMITER
AMP
RESET CIRCUIT
POWER VOLTAGE DET
OUTPUT CIRCUIT
QR7501 DTC144EA or UN1213
QR7502 DTC144EA or UN1213
QR7503 DTA124EA or UN1112
Q7501 2SD637 (REC)
Q7502 2SD636 (BUFFER)
Q7503 2SB641 (BUFFER)
DP7501 VSL0090
SP SLP REC CATV CH SUN MON TUE WED THU FRI SAT OTR VPS COUNT ON OFF AM PM
NV-G10EG Only
SLOW TRACKING
P7504 (TO VPS INTERFACE)
P7501 (TO SYSTEM CTL)
P7502 (TO SYSTEM CTL)
P7503 (TO SERVO)
PJ7501
P6201
SEGMENT DRIVE
GRID DRIVE
SCAN PULSE SIGNALS
SW7512 VPS
SW7513 F UP
SW7514 F DOWN
SW7515 AFC
SW7516 PRESET
SW7517 BAND
SW7520 AV
SW7521 TIMER SET
D7504 LN38GCPP AFC LED
X7502 VSX0094 (32kHz)
X7501 VSX0140 (4.19MHz)
T7501 EIR7010079
IR TUNING
CH SELECT VR
PICTURE
D6204 PN313 or PH302
TIMER & CH SELECT C.B.A
(VEP07323A : NV-G10EG)
(VEP07323B : NV-G7EG)
IR RECEIVER C.B
(VJB00F01)

WN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
IGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

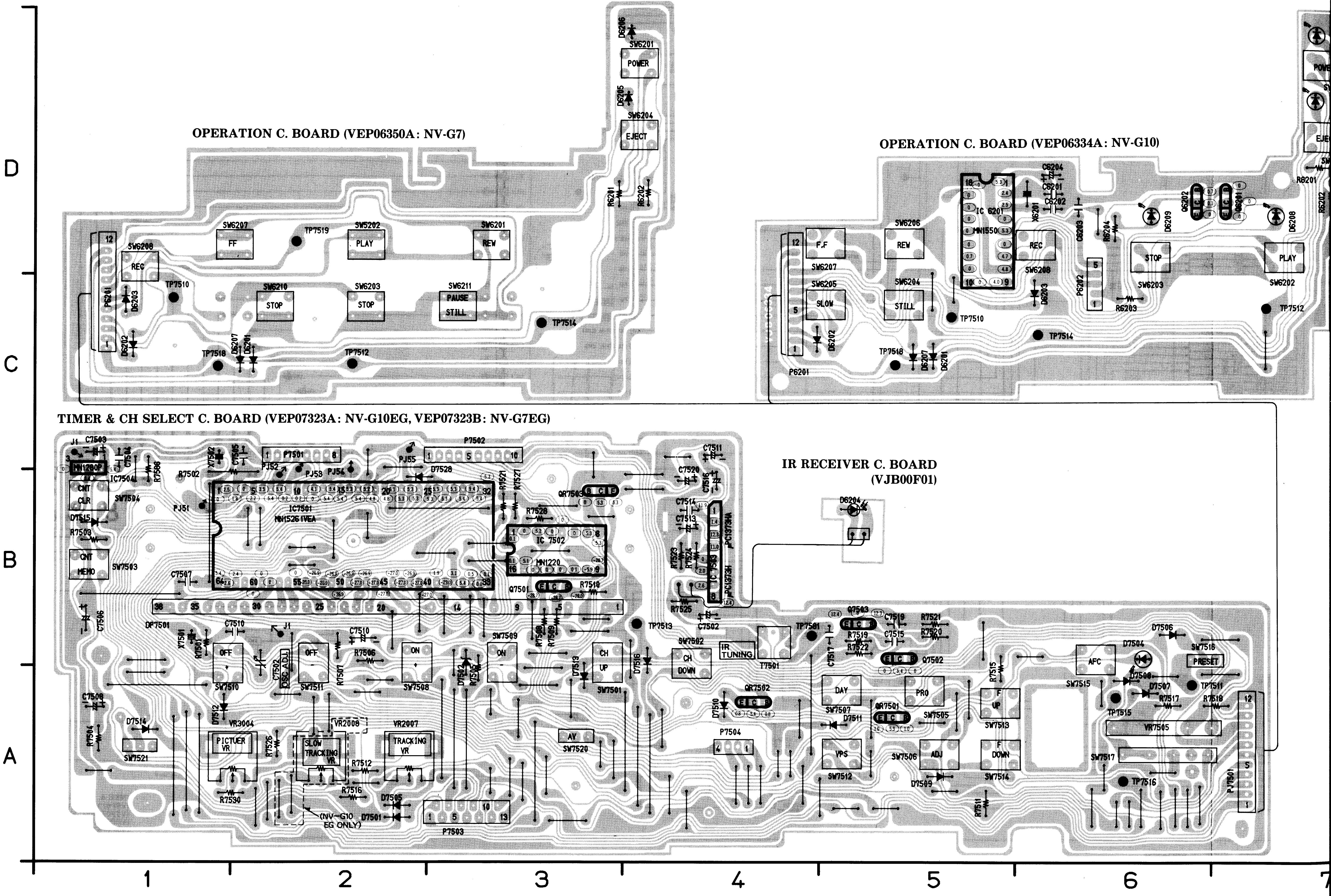
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IN THE FOLLOWING CONDITION.
1) CLOCK SWITCH: FLASH CLOCK
2) SELECTION TIME: SUN 0:00, CH DISPLAY: 1 ,VTR COUNT: 0000

5 6 7 8 9 10 11 12 13 14 15 16 17

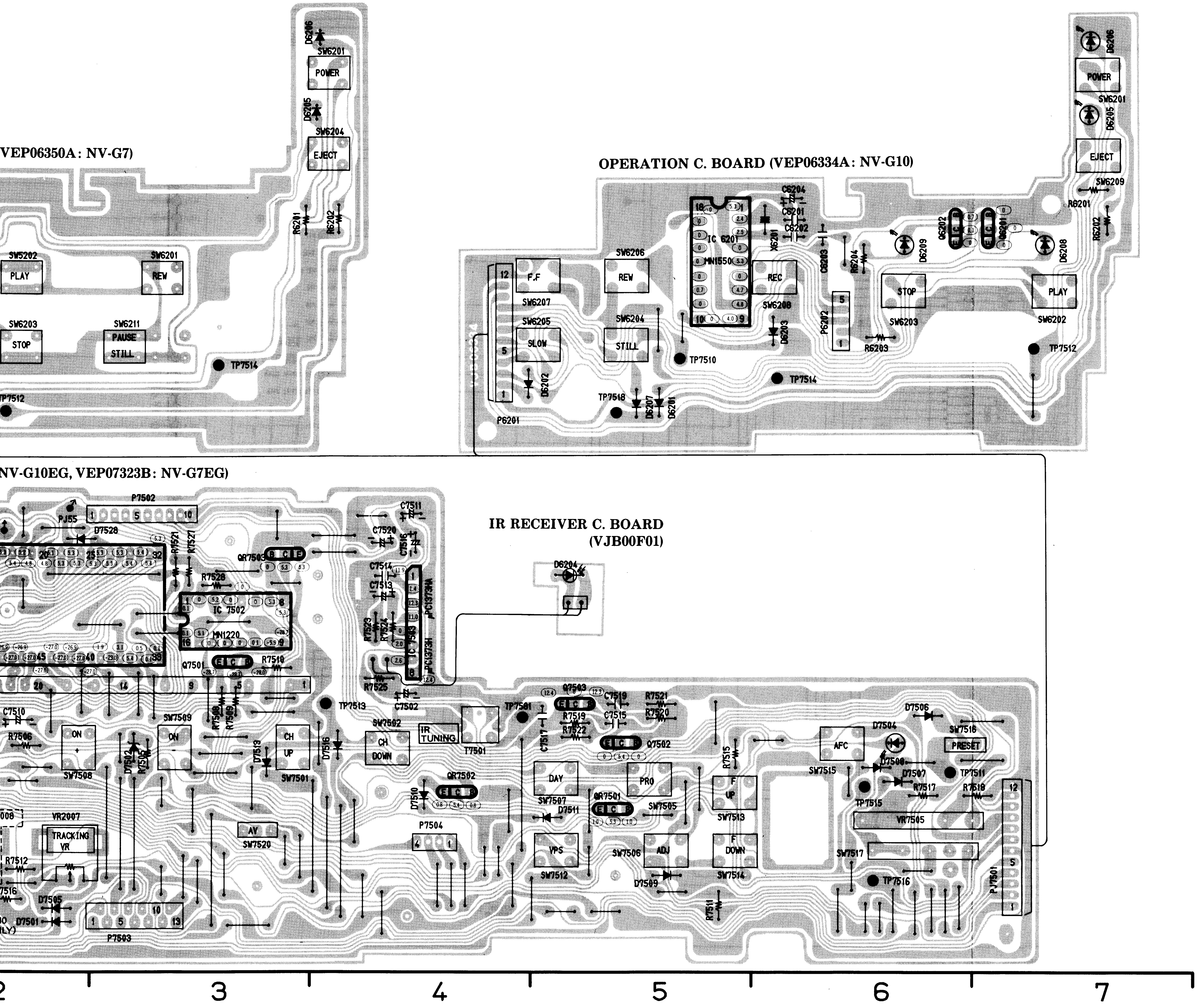
3-28. OPERATION CIRCUIT BOARD (VEP06334A: NV-G10EG) (VEP06350A: NV-G7EG), TIMER & CH SELECT CIRCUIT BOARD (VEP07323A: NV-G10EG) (VEP07323B: NV-G7EG)

TIMER, CH SELECT & OPERATION SCHEMATIC (NV-G10, G7EG)	
Transistor	
Q6201	D-1
Q6202	D-2
Q7501	A-9
Q7502	B-11
Q7503	B-11
Transistor & Resistor	
QR7501	B-8
QR7502	B-9
QR7503	A-9
Integrated Circuit	
IC6201	E-4
IC7501	G-11
IC7502	B-10
IC7503	C-13
IC7504	F-9
Test Point	
TP7510	G-4
TP7511	F-8
TP7512	G-4
TP7513	A-2
TP7514	G-2
TP7515	G-8
TP7516	G-8
TP7518	G-2
TP7581	A-13
Adjustment	
VR2007	G-6
VR2008	G-16
VR3004	F-16
VR7505	D-6
C7502	G-12
T7501	A-12
Connector	
P6201	F-5
P6202	E-1
P7501	G-5
P7502	E-5
P7503	G-17
P7504	G-5
PJ7501	F-6

ADDRESS INFORMATION


OPERATION C. BOARD (VEP06350A: NV-G7)
OPERATION C. BOARD (VEP06334A: NV-G10)
TIMER & CH SELECT C. BOARD (VEP07323A: NV-G10EG, VEP07323B: NV-G7EG)
IR RECEIVER C. BOARD
(VJB00F01)
D
C
B
A
1
2
3
4
5
6
7
POWER
EJECT
FF
PLAY
REW
REC
STOP
PAUSE
STILL
F.F
SLOW
IC 6201
MN1550
IC7501
MN1526 IVEA
IC 7502
MN1220
IC7503
μPC1373H
CNT
CLR
CNT
MEMO
OFF
ON
CH
UP
CH
DOWN
IR
TUNING
DAY
PRO
VPS
ADJ
F
UP
F
DOWN
AFC
PRESET
AV
PICTUER
VR
SLOW
TRACKING
VR
TRACKING
VR
OSC ADJ
(NV-G10
EG ONLY)
P7501
P7502
P7503
P7504
PJ7501
P6201
D6204

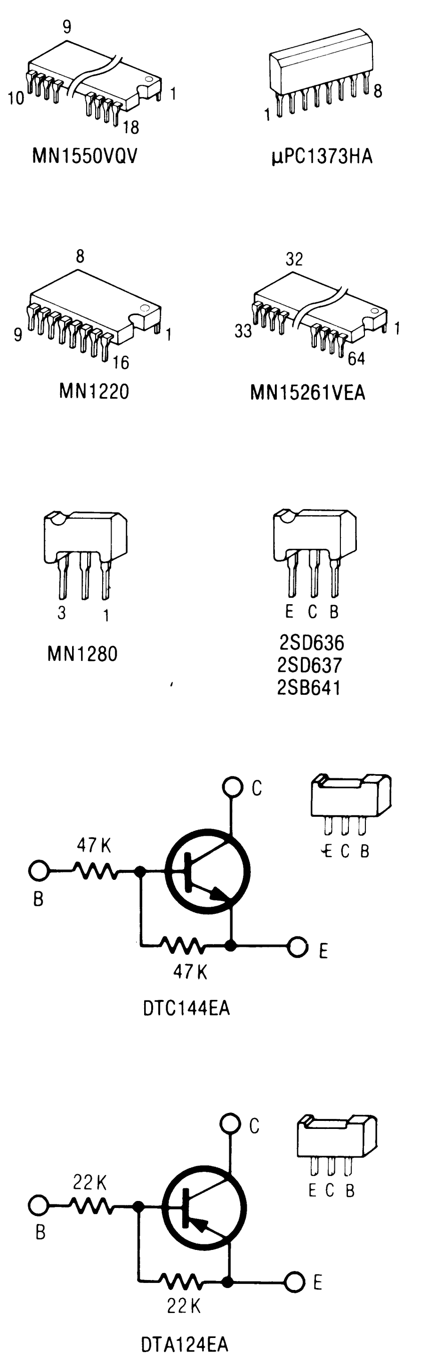
(VEP06334A: NV-G10EG) (VEP06350A: NV-G7EG), TIMER & CH SELECT CIRCUIT BOARD
323B: NV-G7EG)


VEP06350A: NV-G7)
OPERATION C. BOARD (VEP06334A: NV-G10)
NV-G10EG, VEP07323B: NV-G7EG)
IR RECEIVER C. BOARD
(VJB00F01)
POWER
EJECT
PLAY
REW
STOP
PAUSE STILL
F.F
SLOW
STILL
REC
IC 6201
MN1550
IC 7502
MN1220
µPC1373H
TRACKING VR
AV
ON
CH UP
CH DOWN
IR TUNING
DAY
PRO
VPS
ADJ
F UP
F DOWN
AFC
PRESET
2
3
4
5
6
7

TIMER & CH SELECT AND OPERATION CIRCUIT BOARD (NV-G10, G7EG)	
Transistor	
Q6201	D-7 (NV-G10EG)
Q6202	D-6 (NV-G10EG)
Q7501	B-3
Q7502	B-5
Q7503	B-5
Transistor & Resistor	
QR7501	A-5
QR7502	A-4
QR6503	B-3
Integrated Circuit	
IC6201	D-5 (NV-G10EG)
IC7501	B-2
IC7502	B-3
IC7503	B-4
IC7504	B-1
Test Point	
TP7510	C-5 (NV-G10EG)
TP7510	C-1 (NV-G7EG)
TP7511	A-6
TP7512	C-7 (NV-G10EG)
TP7512	C-2 (NV-G7EG)
TP7513	B-4
TP7514	C-6 (NV-G10EG)
TP7514	C-3 (NV-G7EG)
TP7515	A-6
TP7516	A-6
TP7518	C-5 (NV-G10EG)
TP7518	C-1 (NV-G7EG)
TP7519	D-2 (NV-G7EG)
TP7581	B-4
Adjustment	
C7502	A-2
T7501	B-4
VR2007	A-2
VR2008	A-2 (NV-G10EG)
VR3004	A-2
VR7505	A-6

ADDRESS INFORMATION

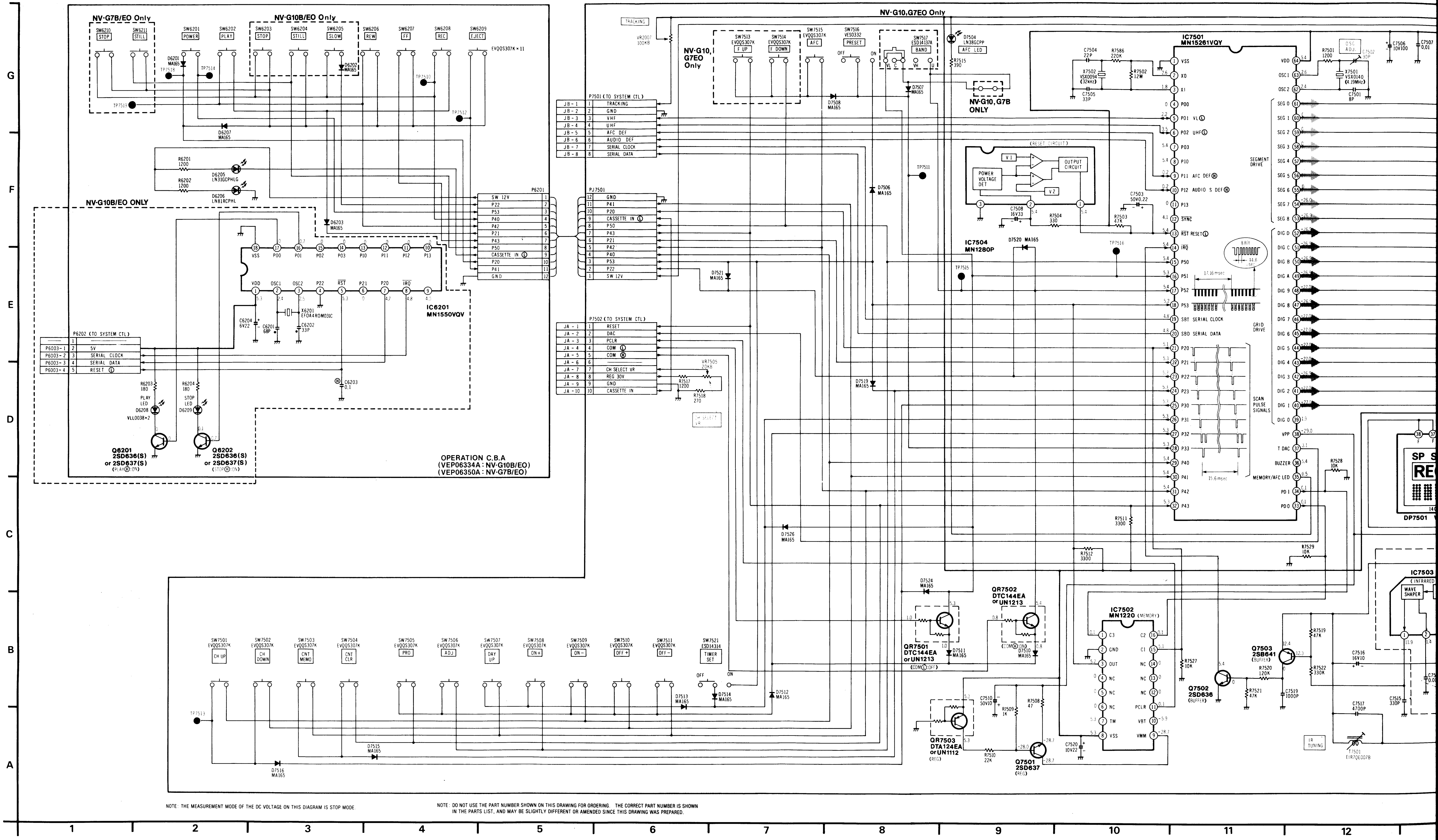
ICs & TRANSISTORs INFORMATION


9
10
1
18
MN1550VQV
1
8
µPC1373HA
8
9
16
1
MN1220
32
33
1
64
MN15261VEA
3
1
MN1280
E C B
2SD636
2SD637
2SB641
C
47 K
B
47 K
E
E C B
DTC144EA
C
22 K
B
22 K
E
E C B
DTA124EA

Next Page:
OPERATION, TIMER & CH SELECT Section

3-29. OPERATION TIMER & CH SELECT SCHEMATIC DIAGRAM

SEGMENT CONTROL SIGNAL GRID CONTROL SIGNAL

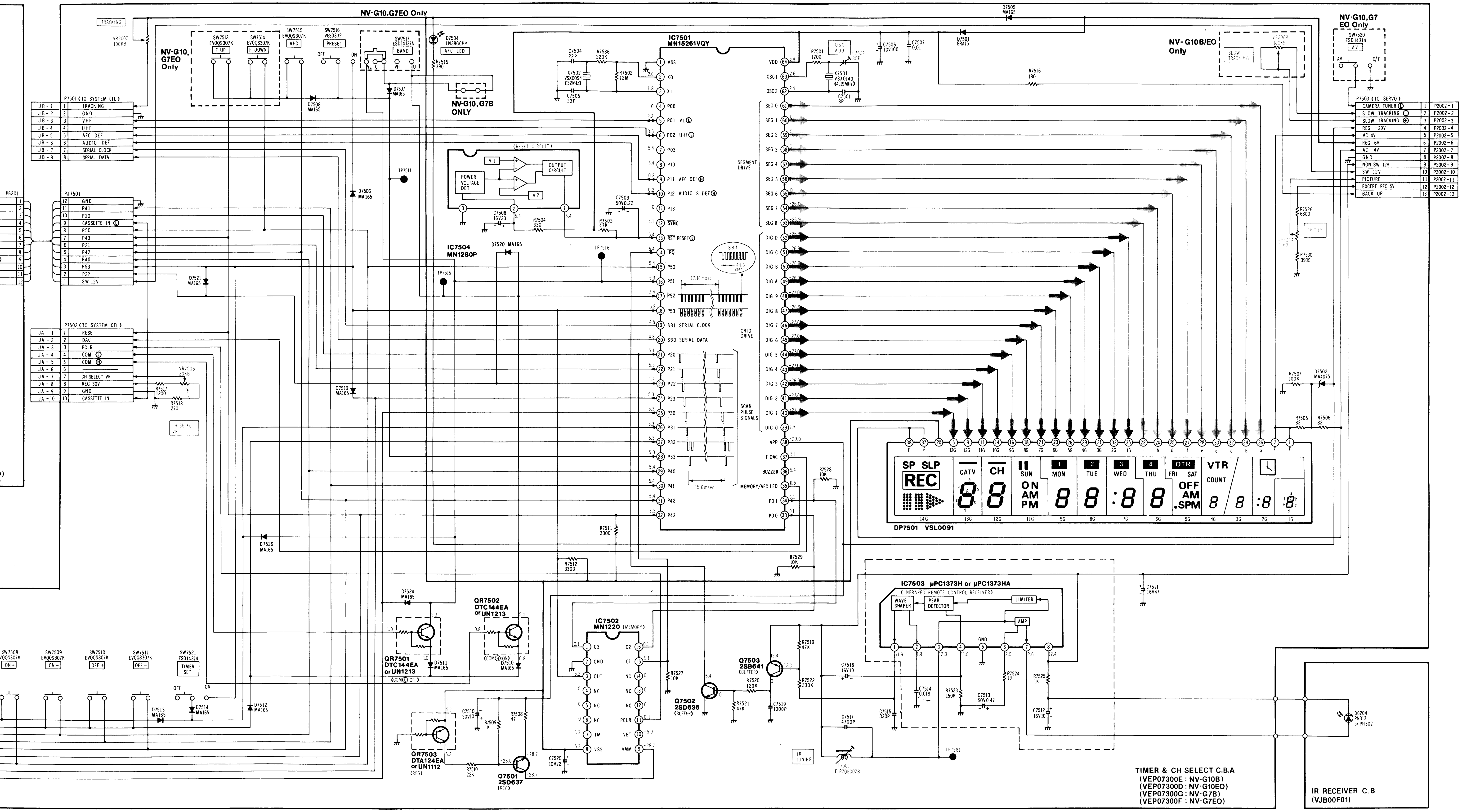

NV-G7B/EO Only
NV-G10B/EO Only
SW6210 STOP
SW6211 STILL
SW6201 POWER
SW6202 PLAY
SW6203 STOP
SW6204 STILL
SW6205 SLOW
SW6206 REW
SW6207 FF
SW6208 REC
SW6209 EJECT
EVQQS307K × 11
D6201 MA165
D6202 MA165
D6203 MA165
D6207 MA165
TP7518
TP7514
TP7519
TP7510
TP7512
R6201 1200
R6202 1200
D6205 LN31GCPHLG
D6206 LN81RCPHL
NV-G10B/EO ONLY
IC6201 MN1550VQV
X6201 EFOA4ROM03IC
C6204 6V22
C6201 68P
C6202 33P
C6203 0.1
P6202 (TO SYSTEM CTL)
5V
SERIAL CLOCK
SERIAL DATA
RESET Ⓛ
R6203 180
PLAY LED D6208
VLL0038×2
R6204 180
STOP LED D6209
Q6201 2SD636(S) or 2SD637(S)
Q6202 2SD636(S) or 2SD637(S)
P6201
SW 12V
P22
P53
P40
P42
P21
P43
P50
CASSETTE IN Ⓛ
P20
P41
GND
OPERATION C.B.A
(VEP06334A : NV-G10B/EO)
(VEP06350A : NV-G7B/EO)
TRACKING
VR2007 100KB
P7501 (TO SYSTEM CTL)
JB-1 TRACKING
JB-2 GND
JB-3 VHF
JB-4 UHF
JB-5 AFC DEF
JB-6 AUDIO DEF
JB-7 SERIAL CLOCK
JB-8 SERIAL DATA
PJ7501
P7502 (TO SYSTEM CTL)
JA-1 RESET
JA-2 DAC
JA-3 PCLR
JA-4 COM Ⓛ
JA-5 COM Ⓗ
JA-7 CH SELECT VR
JA-8 REG 30V
JA-9 GND
JA-10 CASSETTE IN
VR7505 20KB
R7517 1200
R7518 270
NV-G10,G7EO Only
NV-G10, G7EO Only
SW7513 F UP
SW7514 F DOWN
SW7515 AFC
SW7516 PRESET
SW7517 BAND
D7504 LN38GCPP
AFC LED
R7515 390
D7507 MA165
D7508 MA165
NV-G10,G7B ONLY
RESET CIRCUIT
POWER VOLTAGE DET
OUTPUT CIRCUIT
IC7504 MN1280P
D7506 MA165
D7520 MA165
D7521 MA165
D7519 MA165
TP7511
TP7515
TP7516
C7508 16V33
R7504 330
R7503 47K
C7503 50V0.22
IC7501 MN15261VQY
C7504 22P
R7586 220K
X7502 VSX0094 (32kHz)
R7502 12M
C7505 33P
R7501 1200
X7501 VSX0140 (4.19MHz)
C7501 8P
C7502 30P
C7506 10V100
C7507 0.01
VSS X0 X1 P00
P01 VLⒹ
P02 UHFⒹ
P03 P10
P11 AFC DEFⒽ
P12 AUDIO S DEFⒽ
P13 SYNC
RST RESETⓁ
IRQ P50 P51 P52 P53
SBT SERIAL CLOCK
SBD SERIAL DATA
P20 P21 P22 P23 P30 P31 P32 P33 P40 P41 P42 P43
VDD OSC1 OSC2
SEG 0 – SEG 8
SEGMENT DRIVE
DIG D DIG C DIG B DIG A DIG 9 DIG 8 DIG 7 DIG 6 DIG 5 DIG 4 DIG 3 DIG 2 DIG 1 DIG 0
GRID DRIVE
SCAN PULSE SIGNALS
VPP T DAC BUZZER MEMORY/AFC LED PD1 PD0
17.16msec
15.6msec
R7528 10K
R7529 10K
R7511 3300
R7512 3300
DP7501
IC7503
INFRARED
WAVE SHAPER
D7524 MA165
QR7502 DTC144EA or UN1213
QR7501 DTC144EA or UN1213
(COMⓁOFF)
(COMⒽON)
D7511 MA165
D7510 MA165
IC7502 MN1220 (MEMORY)
C3 GND OUT NC TM VSS C2 C1 PCLR VBT VMM
R7527 10K
Q7502 2SD636 (BUFFER)
Q7503 2SB641 (BUFFER)
R7520 120K
R7521 47K
R7519 47K
R7522 330K
C7519 1000P
C7516 16V10
C7517 4700P
C7515 330P
T7501 EIR7QE0078
IR TUNING
C7510 50V10
R7509 1K
R7508 47
R7510 22K
C7520 10V22
QR7503 DTA124EA or UN1112 (REG)
Q7501 2SD637 (REG)
D7526 MA165
SW7501 CH UP
SW7502 CH DOWN
SW7503 CNT MEMO
SW7504 CNT CLR
SW7505 PRO
SW7506 ADJ
SW7507 DAY UP
SW7508 ON+
SW7509 ON−
SW7510 OFF+
SW7511 OFF−
SW7521 TIMER SET
EVQQS307K
ESD14314
TP7513
D7513 MA165
D7514 MA165
D7512 MA165
D7515 MA165
D7516 MA165
G F E D C B A
1 2 3 4 5 6 7 8 9 10 11 12

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

GRAM

SEGMENT CONTROL SIGNAL   GRID CONTROL SIGNAL



NV-G10,G7EO Only
NV-G10, G7EO Only
NV-G10,G7B ONLY
NV-G10B/EO Only
NV-G10,G7 EO Only
IC7501 MN15261VQY
IC7502 MN1220 (MEMORY)
IC7503 μPC1373H or μPC1373HA
(INFRARED REMOTE CONTROL RECEIVER)
WAVE SHAPER
PEAK DETECTOR
LIMITER
AMP
IC7504 MN1280P
(RESET CIRCUIT)
POWER VOLTAGE DET
OUTPUT CIRCUIT
SEGMENT DRIVE
GRID DRIVE
SCAN PULSE SIGNALS
17.16msec
15.6msec
8bit
P7501 (TO SYSTEM CTL)
TRACKING
GND
VHF
UHF
AFC DEF
AUDIO DEF
SERIAL CLOCK
SERIAL DATA
PJ7501
P6201
P7502 (TO SYSTEM CTL)
RESET
DAC
PCLR
CH SELECT VR
REG 30V
CASSETTE IN
P7503 (TO SERVO)
CAMERA TUNER
SLOW TRACKING
REG -29V
AC 4V
REG 6V
NON SW 12V
SW 12V
PICTURE
EXCEPT REC 5V
BACK UP
SW7513 EVQQS307K F UP
SW7514 EVQQS307K F DOWN
SW7515 EVQQS307K AFC
SW7516 VES0332 PRESET
SW7517 ESD14137A BAND
SW7520 ESD14314 AV
SW7508 EVQQS307K ON+
SW7509 EVQQS307K ON−
SW7510 EVQQS307K OFF+
SW7511 EVQQS307K OFF−
SW7521 ESD14314 TIMER SET
D7504 LN38GCPP AFC LED
QR7501 DTC144EA or UN1213
QR7502 DTC144EA or UN1213
QR7503 DTA124EA or UN1112
Q7501 2SD637 (REG)
Q7502 2SD636 (BUFFER)
Q7503 2SB641 (BUFFER)
X7501 VSX0140 (4.19MHz)
X7502 VSX0094 (32kHz)
DP7501 VSL0091
SP SLP REC CATV CH SUN MON TUE WED THU FRI SAT OTR VTR COUNT ON AM PM OFF AM .SPM
D6204 PN313 or PH302
IR TUNING
T7501 EIR7QE007B
TIMER & CH SELECT C.B.A
(VEP07300E : NV-G10B)
(VEP07300D : NV-G10EO)
(VEP07300G : NV-G7B)
(VEP07300F : NV-G7EO)
IR RECEIVER C.B
(VJB00F01)

OWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN
SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

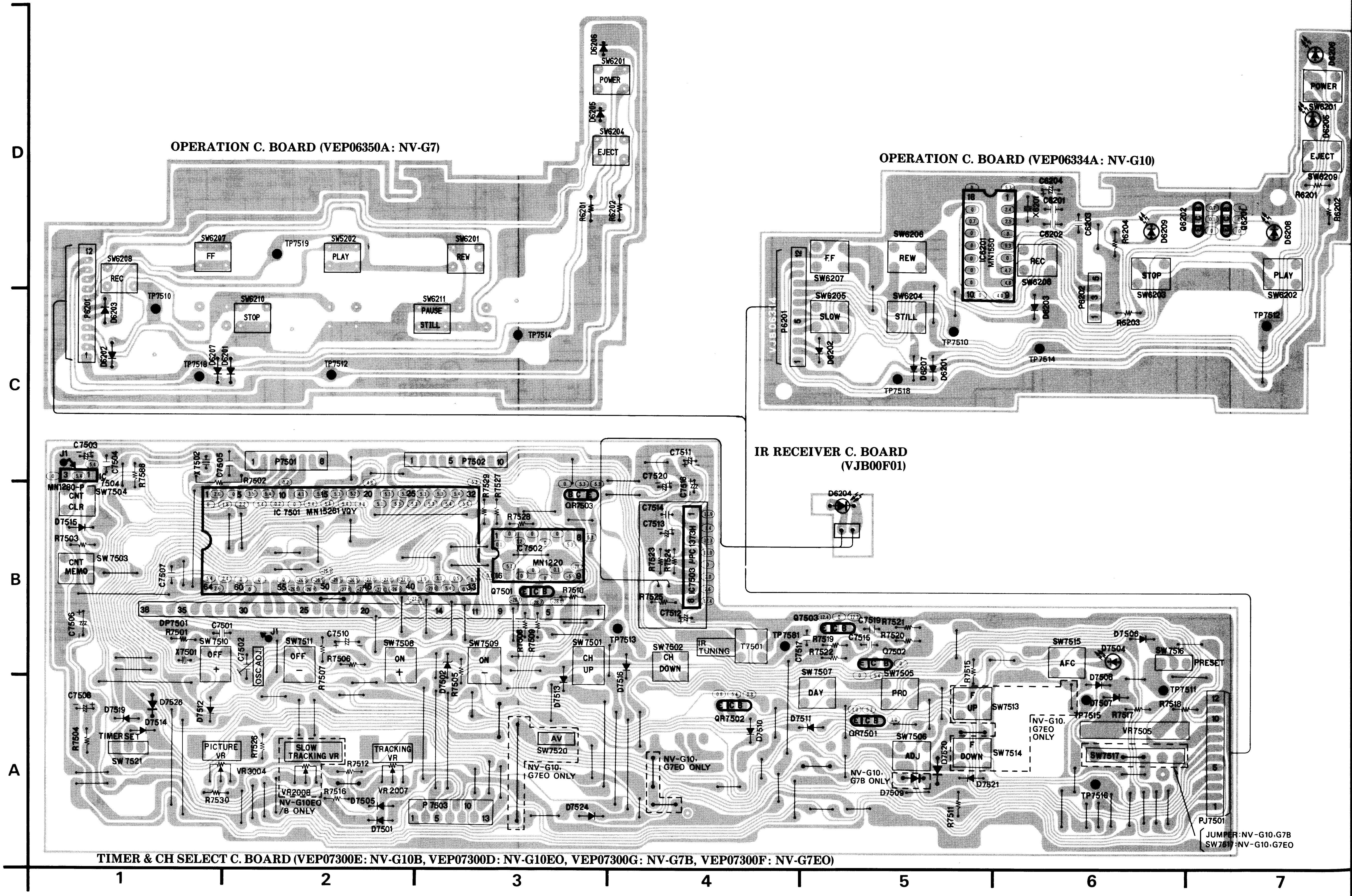
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IN THE FOLLOWING CONDITION.
1) CLOCK SWITCH: FLASH CLOCK
2) SELECTION TIME: SUN 0:00, CH DISPLAY: 1 ,VTR COUNT: 0000

5 6 7 8 9 10 11 12 13 14 15 16 17

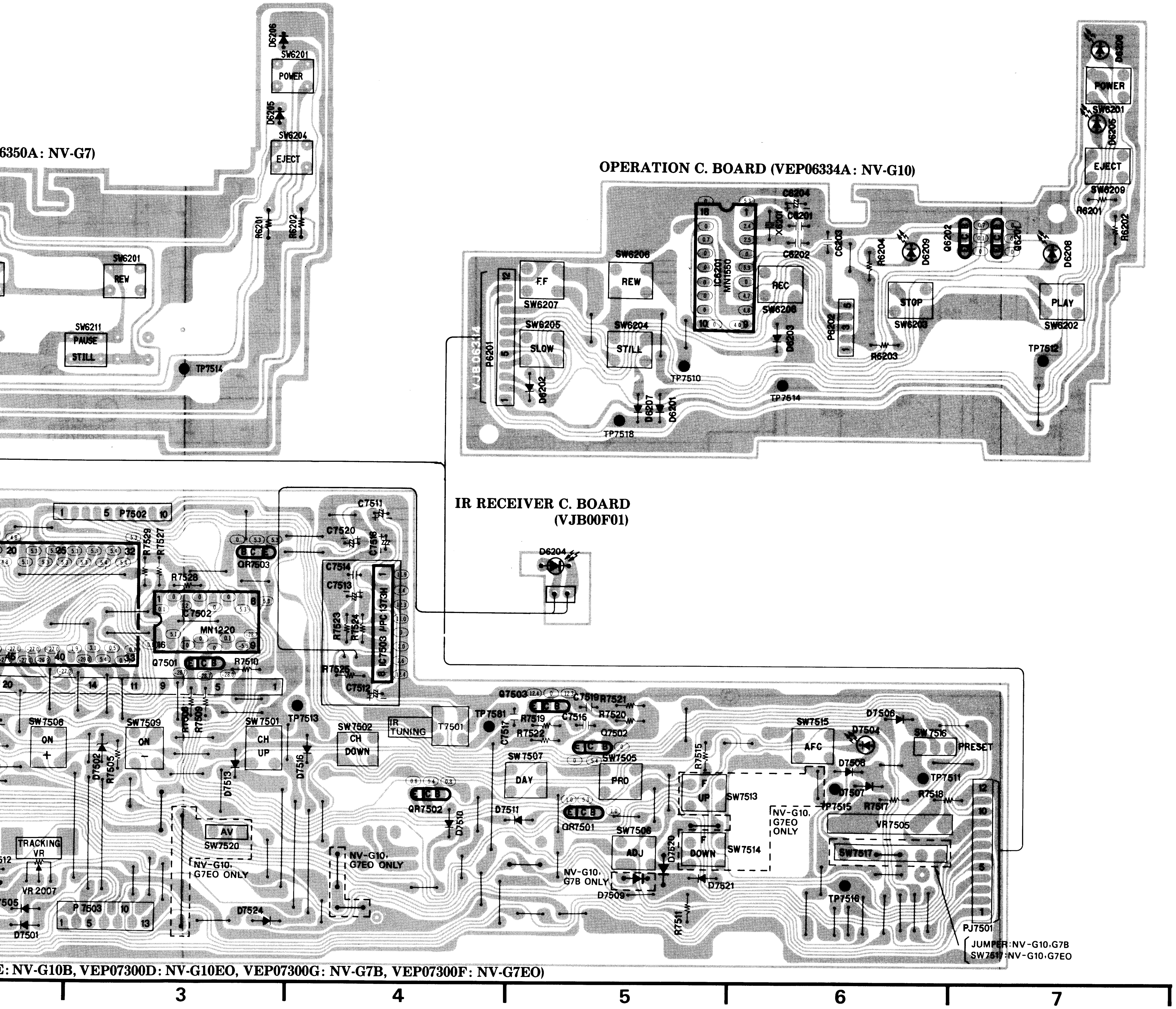
3-30. OPERATION CIRCUIT BOARD (VEP06334A: NV-G10B/EO) (VEP06350A: NV-G7B/EO), TIMER & CH SELECT CIRCUIT BOARD (VEP07300E: NV-G10B) (VEP07300D: NV-G10EO) (VEP07300G: NV-G7B) (VEP07300F: NV-G7EO)

TIMER, CH SELECT & OPERATION SCHEMATIC (NV-G10, G7B/EO)	
Transistor	
Q6201	D-1
Q6202	D-2
Q7501	A-9
Q7502	B-11
Q7503	B-11
Transistor & Resistor	
QR7501	B-8
QR7502	B-9
QR7503	A-9
Integrated Circuit	
IC6201	E-4
IC7501	G-11
IC7502	B-10
IC7503	C-13
IC7504	F-9
Test Point	
TP7510	G-4
TP7511	F-8
TP7512	G-4
TP7513	A-2
TP7514	G-2
TP7515	G-8
TP7516	G-8
TP7518	G-2
TP7581	A-13
Adjustment	
VR2007	G-6
VR2008	G-16
VR3004	F-16
VR7505	D-6
C7502	G-12
T7501	A-12
Connector	
P6201	F-5
P6202	E-1
P7501	G-5
P7502	E-5
P7503	G-17
PJ7501	F-6

ADDRESS INFORMATION


D
C
B
A
1
2
3
4
5
6
7
OPERATION C. BOARD (VEP06350A: NV-G7)
OPERATION C. BOARD (VEP06334A: NV-G10)
IR RECEIVER C. BOARD
(VJB00F01)
TIMER & CH SELECT C. BOARD (VEP07300E: NV-G10B, VEP07300D: NV-G10EO, VEP07300G: NV-G7B, VEP07300F: NV-G7EO)
SW6201 POWER
SW6204 EJECT
SW6207 FF
SW5202 PLAY
SW6201 REW
SW6208 REC
SW6210 STOP
SW6211 PAUSE STILL
SW6206 REW
SW6205 SLOW
SW6204 STILL
SW6203 STOP
SW6202 PLAY
SW6209
IC6201 MN1550
P6201
P6202
TP7510
TP7512
TP7514
TP7518
TP7519
D6204
IC 7501 MN15261VQY
MN1220
IC7503 μPC1373H
P7501
P7502
P 7503
SW7504 CNT CLR
SW7503 CNT MEMO
SW7510 OFF +
OSC ADJ
SW7511 OFF −
SW7508 ON +
SW7509 ON −
SW7501 CH UP
SW7502 CH DOWN
IR TUNING
T7501
SW7507 DAY
SW7505 PRO
SW7513 F UP
SW7514 F DOWN
SW7506 ADJ
SW7515 AFC
SW7516 PRESET
SW7517
VR7505
SW7520 AV
SW 7521 TIMER SET
PICTURE VR
VR3004
SLOW TRACKING VR
VR2008
NV-G10EO/B ONLY
TRACKING VR
VR2007
NV-G10, G7EO ONLY
NV-G10, G7B ONLY
PJ7501
JUMPER: NV-G10, G7B
SW7517: NV-G10, G7EO
TP7511
TP7513
TP7515
TP7516
TP7581

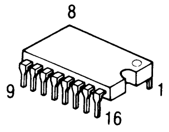
(VEP06334A: NV-G10B/EO) (VEP06350A: NV-G7B/EO), TIMER & CH SELECT CIRCUIT BOARD
D: NV-G10EO) (VEP07300G: NV-G7B) (VEP07300F: NV-G7EO)


6350A: NV-G7)
OPERATION C. BOARD (VEP06334A: NV-G10)
IR RECEIVER C. BOARD
(VJB00F01)
D6206
SW6201
POWER
D6205
SW6204
EJECT
R6201
R6202
SW6201
REW
SW6211
PAUSE
STILL
TP7514
SW6209
R6201
R6202
D6208
D6209
Q6202
Q6201
R6204
C6204
C6201
X6201
C6202
C6203
IC6201
MN1550
REC
SW6206
D6203
P6202
STOP
SW6203
R6203
PLAY
SW6202
TP7512
FF
SW6207
SW6208
SW6205
SLOW
SW6204
STILL
TP7510
TP7514
TP7518
D6202
D6207
D6201
P6201
VJB06334
D6204
P7502
R7529
R7527
R7528
QR7503
C7502
MN1220
Q7501
R7510
C7511
C7520
C7516
C7514
C7513
R7523
R7524
IC7503
µPC1373H
R7525
C7512
SW7506
ON
+
SW7509
ON
−
SW7501
CH
UP
TP7513
SW7502
CH
DOWN
IR
TUNING
T7501
TP7581
Q7503
R7519
R7522
C7517
C7519
R7521
R7520
C7515
Q7502
SW7507
DAY
SW7505
PRO
QR7502
D7510
D7511
QR7501
SW7508
ADJ
D7520
R7515
UP
SW7513
DOWN
SW7514
D7521
D7509
NV-G10,
G7EO
ONLY
SW7515
AFC
D7504
D7506
SW7516
PRESET
D7508
TP7511
D7507
TP7515
R7517
R7518
VR7505
SW7517
TP7516
R7511
PJ7501
JUMPER: NV-G10, G7B
SW7517: NV-G10, G7EO
D7502
R7505
D7513
D7516
TRACKING
VR
SW7520
AV
NV-G10,
G7EO ONLY
NV-G10,
G7EO ONLY
NV-G10,
G7B ONLY
VR 2007
P7503
D7501
D7524
E: NV-G10B, VEP07300D: NV-G10EO, VEP07300G: NV-G7B, VEP07300F: NV-G7EO)
3
4
5
6
7

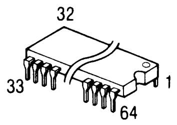
TIMER & CH SELECT AND OPERATION CIRCUIT BOARD (NV-G10, G7B/EO)	
Transistor	
Q6201	D-7 (NV-G10B/EO)
Q6202	D-6 (NV-G10B/EO)
Q7501	B-3
Q7502	B-5
Q7503	B-5
Transistor & Resistor	
QR7501	A-5
QR7502	A-4
QR6503	B-3
Integrated Circuit	
IC6201	D-5 (NV-G10B/EO)
IC7501	B-2
IC7502	B-3
IC7503	B-4
IC7504	B-1
Test Point	
TP7510	C-5 (NV-G10B/EO)
TP7510	C-1 (NV-G7B/EO)
TP7511	A-6
TP7512	C-7 (NV-G10B/EO)
TP7512	C-2 (NV-G7B/EO)
TP7513	B-4
TP7514	C-6 (NV-G10B/EO)
TP7514	C-3 (NV-G7B/EO)
TP7515	A-6
TP7516	A-6
TP7518	C-5 (NV-G10B/EO)
TP7518	C-1 (NV-G7B/EO)
TP7519	D-2 (NV-G7B/EO)
TP7581	B-4
Adjustment	
C7502	B-2
T7501	B-4
VR2007	A-2
VR2008	A-2 (NV-G10B/EO)
VR3004	A-2
VR7505	A-6

ADDRESS INFORMATION

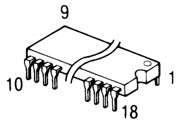
ICs & TRANSISTORs INFORMATION



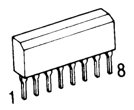
MN1220



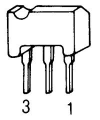
MN15261VQY



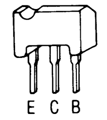
MN1550VQV



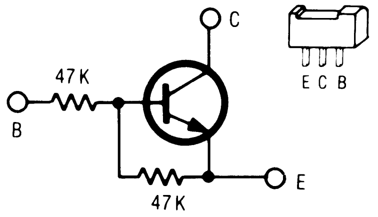
µPC1373HA

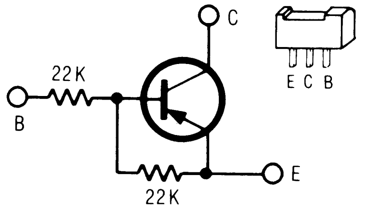


MN1280



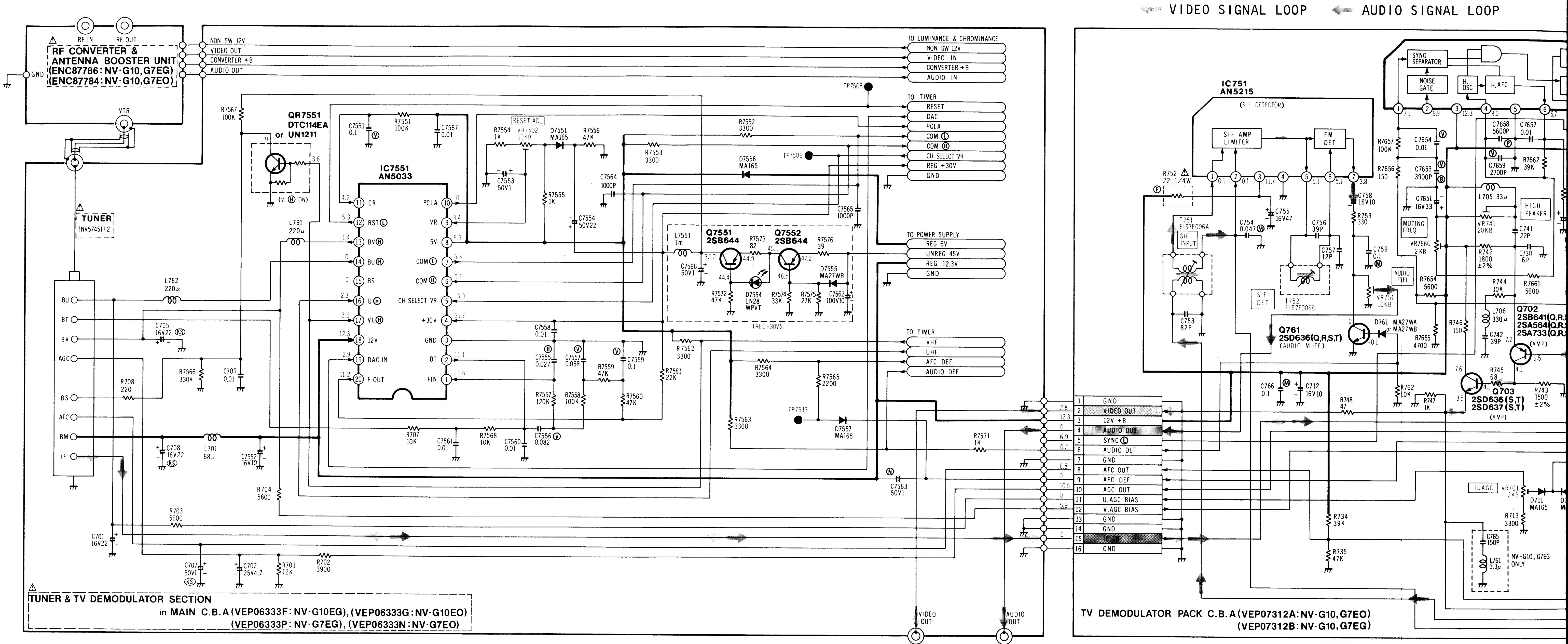
2SD636
2SD637
2SB641


C
47K
B
47K
E
E C B
DTC144EA


C
22K
B
22K
E
E C B
DTA124EA

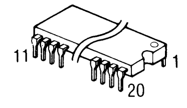
Next Page:
TV DEMODULATOR Section

3-31. TUNER, TV DEMODULATOR & TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-G10, G7EG/EO)


VIDEO SIGNAL LOOP
AUDIO SIGNAL LOOP
RF IN
RF OUT
RF CONVERTER & ANTENNA BOOSTER UNIT
(ENC87786: NV-G10, G7EG)
(ENC87784: NV-G10, G7EO)
GND
NON SW 12V
VIDEO OUT
CONVERTER +B
AUDIO OUT
VTR
TUNER
TNV5745IF2
BU
BT
BV
AGC
BS
AFC
BM
IF
QR7551
DTC114EA
or UN1211
IC7551
AN5033
CR
RST
BV
BU
BS
U
VL
12V
DAC IN
F OUT
PCLA
VR
5V
COM
CH SELECT VR
+30V
GND
BT
FIN
Q7551
2SB644
Q7552
2SB644
D7554 LN28 WPVT
D7555 MA27WB
D7551 MA165
D7556 MA165
D7557 MA165
RESET ADJ
TP7508
TP7506
TP7517
TO LUMINANCE & CHROMINANCE
NON SW 12V
VIDEO IN
CONVERTER +B
AUDIO IN
TO TIMER
RESET
DAC
PCLA
COM
CH SELECT VR
REG +30V
GND
TO POWER SUPPLY
REG 6V
UNREG 45V
REG 12.3V
TO TIMER
VHF
UHF
AFC DEF
AUDIO DEF
VIDEO OUT
AUDIO OUT
TUNER & TV DEMODULATOR SECTION
in MAIN C.B.A (VEP06333F: NV-G10EG), (VEP06333G: NV-G10EO)
(VEP06333P: NV-G7EG), (VEP06333N: NV-G7EO)
IC751
AN5215
SIF DETECTOR
SIF AMP LIMITER
FM DET
T751 EIS7E006A
SIF INPUT
T752 EIS7E006B
SIF DET
Q761
2SD636(Q,R,S,T)
AUDIO MUTE
D761 MA27WA or MA27WB
AUDIO LEVEL
VR751 10KB
SYNC SEPARATOR
NOISE GATE
H. OSC
H. AFC
MUTING FREQ.
HIGH PEAKER
Q702
2SB641(Q,R
2SA564(Q,R
2SA733(Q,R
Q703
2SD636(S,T)
2SD637(S,T)
(AMP)
U.AGC
VR701 2KB
D711 MA165
NV-G10, G7EG ONLY
1 GND
2 VIDEO OUT
3 12V +B
4 AUDIO OUT
5 SYNC
6 AUDIO DEF
7 GND
8 AFC OUT
9 AFC DEF
10 AGC OUT
11 U.AGC BIAS
12 V.AGC BIAS
13 GND
14 GND
15 IF IN
16 GND
TV DEMODULATOR PACK C.B.A (VEP07312A: NV-G10, G7EO)
(VEP07312B: NV-G10, G7EG)

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFET
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE

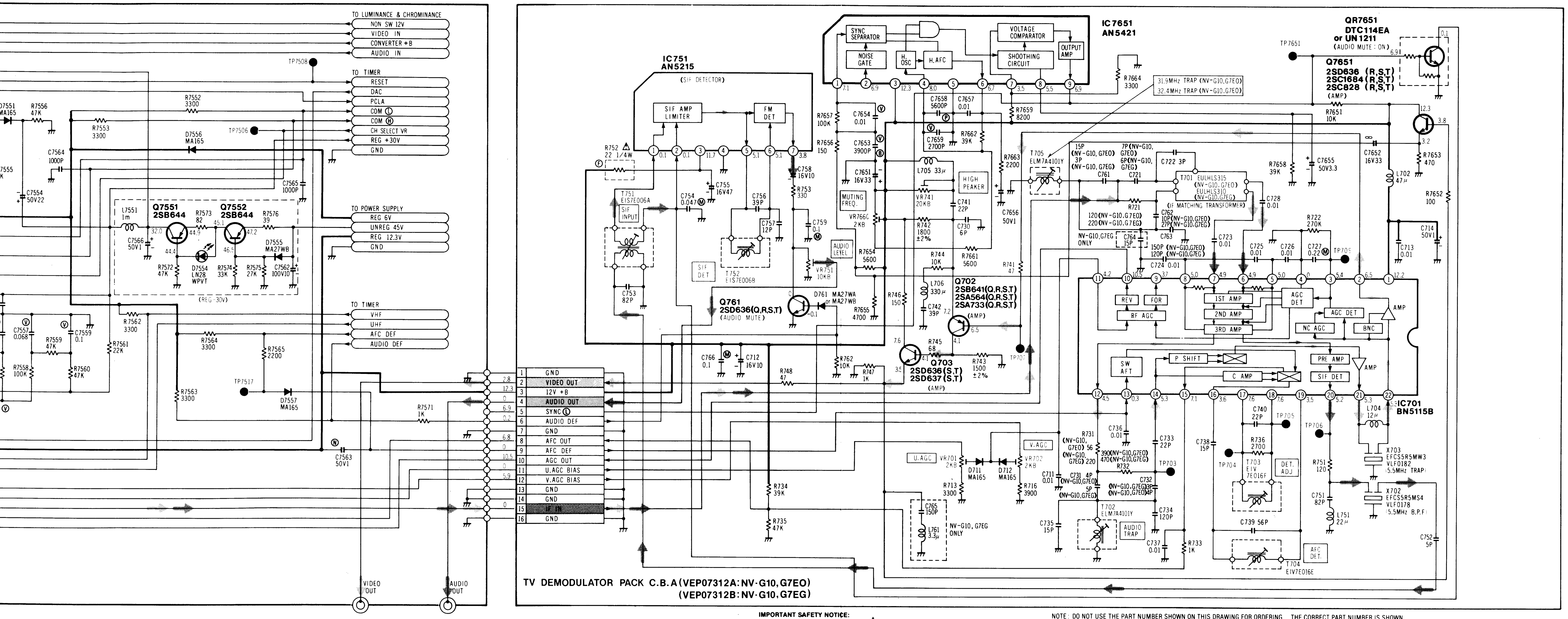
ICs & TRANSISTORs IN



AN5033

PACK SCHEMATIC DIAGRAM (NV-G10, G7EG/EO)

VIDEO SIGNAL LOOP   AUDIO SIGNAL LOOP


TO LUMINANCE & CHROMINANCE
NON SW 12V
VIDEO IN
CONVERTER +B
AUDIO IN
TO TIMER
RESET
DAC
PCLA
CH SELECT VR
REG +30V
GND
TO POWER SUPPLY
REG 6V
UNREG 45V
REG 12.3V
TO TIMER
VHF
UHF
AFC DEF
AUDIO DEF
Q7551 2SB644
Q7552 2SB644
D7554 LN28 WPVT
D7555 MA27WB
D7556 MA165
D7557 MA165
TP7506
TP7508
TP7517
GND
VIDEO OUT
12V +B
AUDIO OUT
SYNC
AUDIO DEF
AFC OUT
AFC DEF
AGC OUT
U.AGC BIAS
V.AGC BIAS
IF IN
VIDEO OUT
AUDIO OUT
IC751 AN5215
(SIF DETECTOR)
SIF AMP LIMITER
FM DET
SIF INPUT
SIF DET
T751 EIS7E006A
T752 EIS7E006B
Q761 2SD636(Q,R,S,T) (AUDIO MUTE)
D761 MA27WA or MA27WB
AUDIO LEVEL
VR751 10KB
IC7651 AN5421
SYNC SEPARATOR
NOISE GATE
H. OSC
H. AFC
VOLTAGE COMPARATOR
SHOOTHING CIRCUIT
OUTPUT AMP
31.9MHz TRAP (NV-G10,G7EO)
32.4MHz TRAP (NV-G10,G7EO)
QR7651 DTC114EA or UN1211 (AUDIO MUTE : ON)
Q7651 2SD636 (R,S,T) 2SC1684 (R,S,T) 2SC828 (R,S,T) (AMP)
MUTING FREQ.
HIGH PEAKER
L705 33μ
VR741 20KB
Q702 2SB641(Q,R,S,T) 2SA564(Q,R,S,T) 2SA733(Q,R,S,T) (AMP)
Q703 2SD636(S,T) 2SD637(S,T) (AMP)
T705 ELM7A4101Y
T701 EULHLS315 (NV-G10,G7EO) EULHLS310 (NV-G10,G7EG) (IF MATCHING TRANSFORMER)
REV
FOR
RF AGC
1ST AMP
2ND AMP
3RD AMP
AGC DET
NC AGC
BNC
AMP
SW AFT
P SHIFT
C AMP
PRE AMP
SIF DET
IC701 BN5115B
U.AGC
V.AGC
D711 MA165
D712 MA165
T702 ELM7A4101Y
AUDIO TRAP
T703 EIV 7E016F
DET. ADJ
T704 EIV7E016E
AFC DET.
X703 EFCS5R5MW3 VLF0182 5.5MHz TRAP
X702 EFCS5R5MS4 VLF0178 5.5MHz B.P.F
L761 3.3μ
NV-G10, G7EG ONLY
TP703
TP704
TP705
TP706
TP707
TP7651

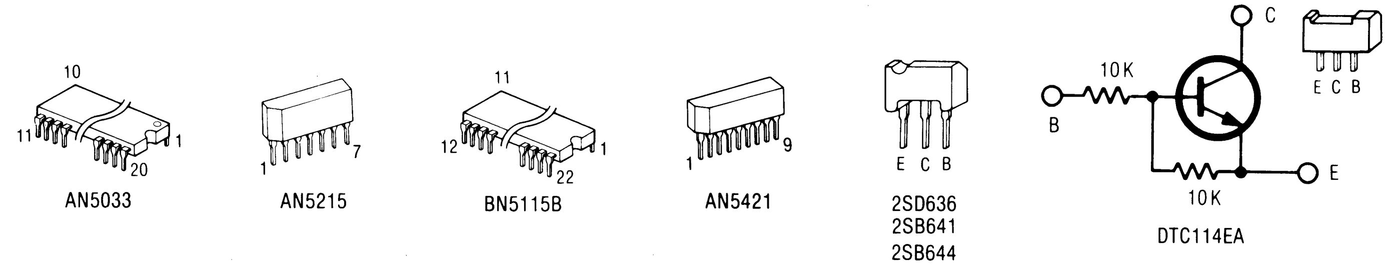
TV DEMODULATOR PACK C.B.A (VEP07312A: NV-G10, G7EO)
(VEP07312B: NV-G10, G7EG)

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

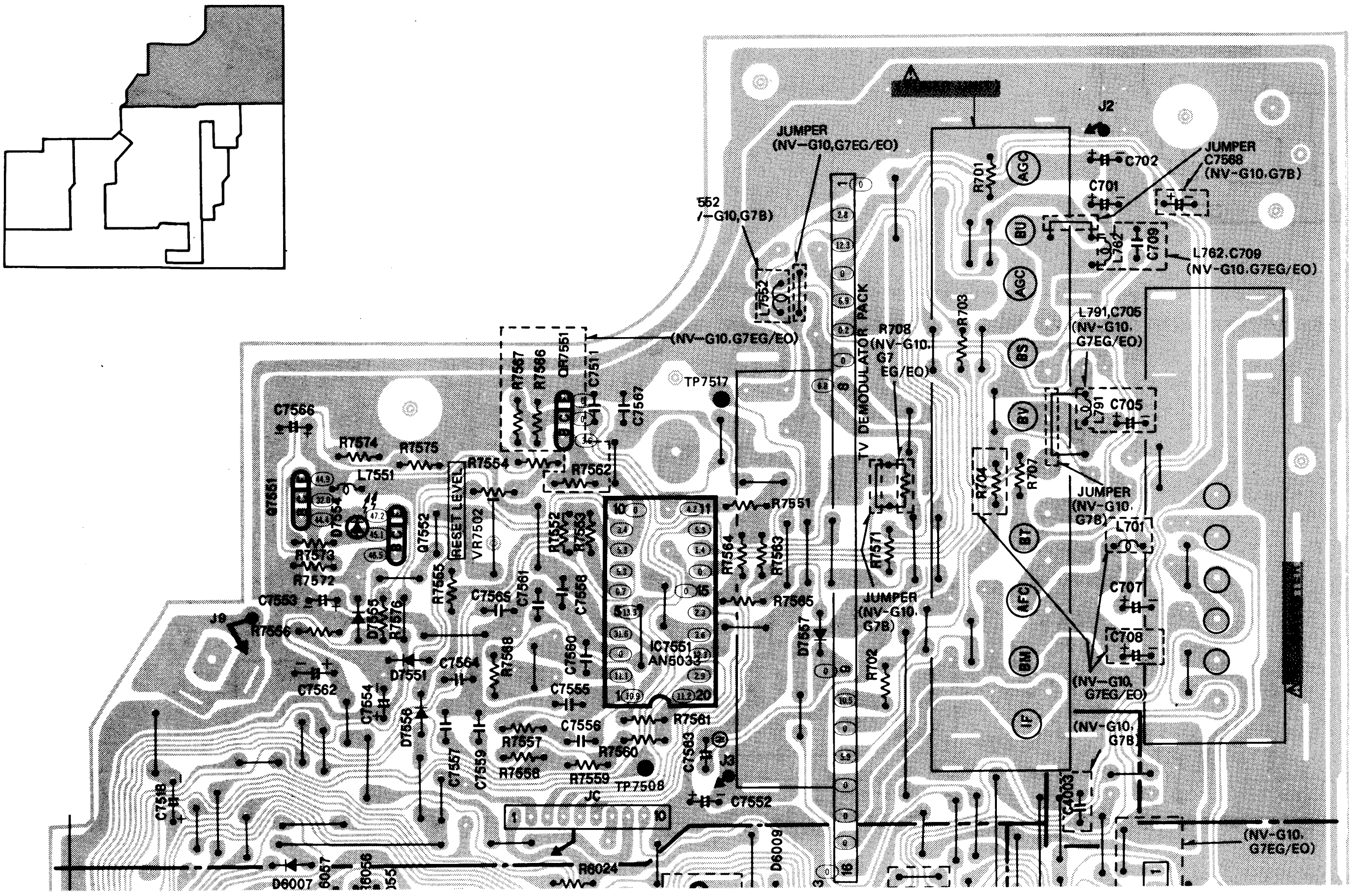
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

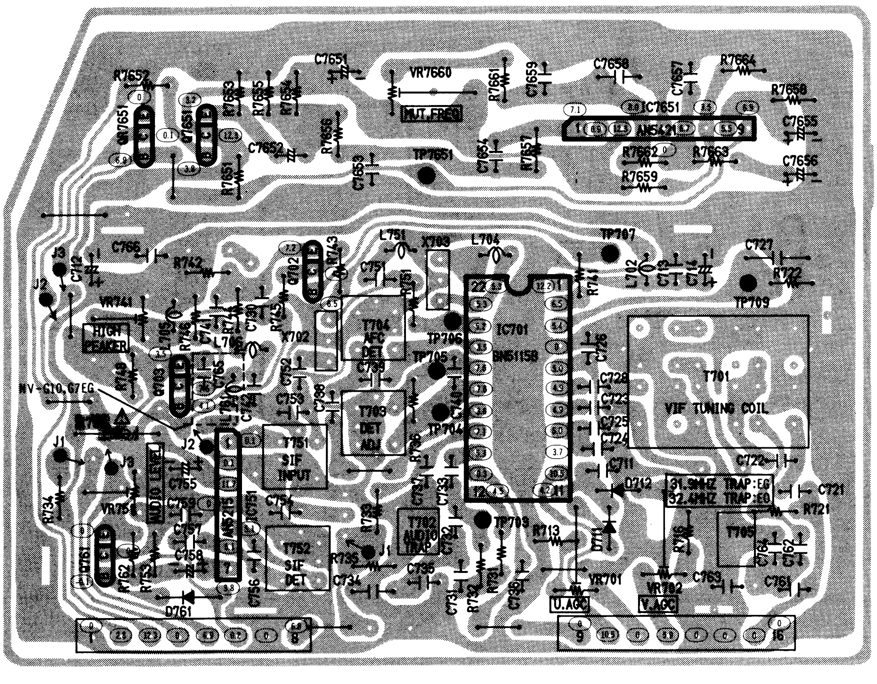
ICs & TRANSISTORs INFORMATION


10
11
1
20
AN5033
1
7
AN5215
11
12
1
22
BN5115B
1
9
AN5421
E C B
2SD636
2SB641
2SB644
C
B
E
10K
10K
E C B
DTC114EA

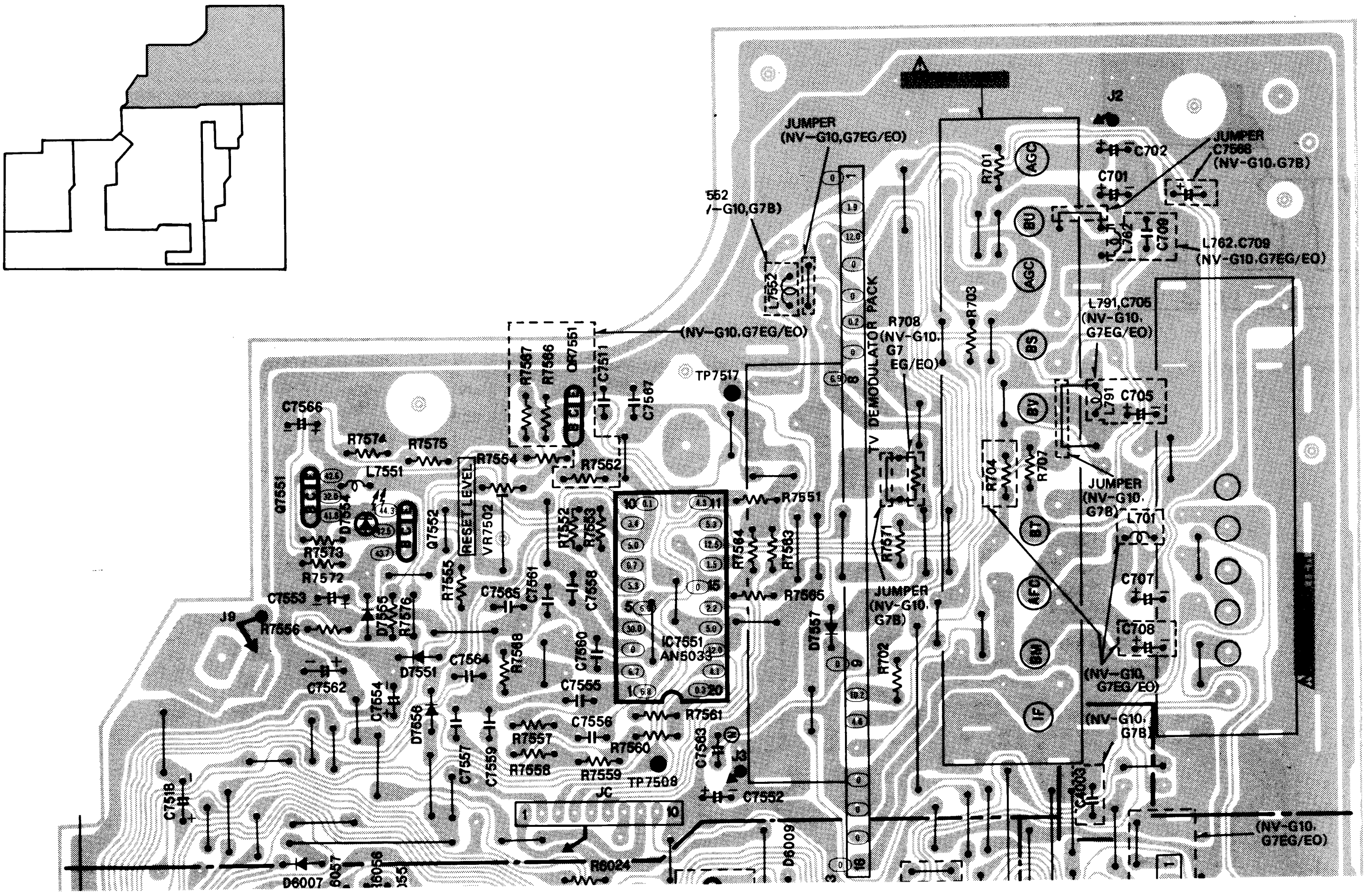
3-32. TUNER & TV DEMODULATOR Section in Main Circuit Board (VEP06333F: NV-G10EG) (VEP06333G: NV-G10EO) (VEP06333P: NV-G7EG) (VEP06333N: NV-G7EO)


J2
JUMPER (NV-G10,G7EG/EO)
JUMPER C7568 (NV-G10,G7B)
L762,C709 (NV-G10,G7EG/EO)
L791,C705 (NV-G10, G7EG/EO)
JUMPER (NV-G10, G7B)
(NV-G10,G7EG/EO)
TV DEMODULATOR PACK
R708 (NV-G10, G7 EG/EO)
AGC
BU
BS
BV
BT
AFC
BM
IF
TP7517
TP7508
IC7551 AN5033
RESET LEVEL
VR7502
JUMPER (NV-G10, G7B)
(NV-G10, G7EG/EO)
(NV-G10, G7B)
J9
J3
JC
D6007
D6009
R6024
C7552
(NV-G10, G7EG/EO)

3-33. TV DEMODULATOR PACK CIRCUIT BOARD (VEP07312B: NV-G10, G7EG) (VEP07312A: NV-G10, G7EO)

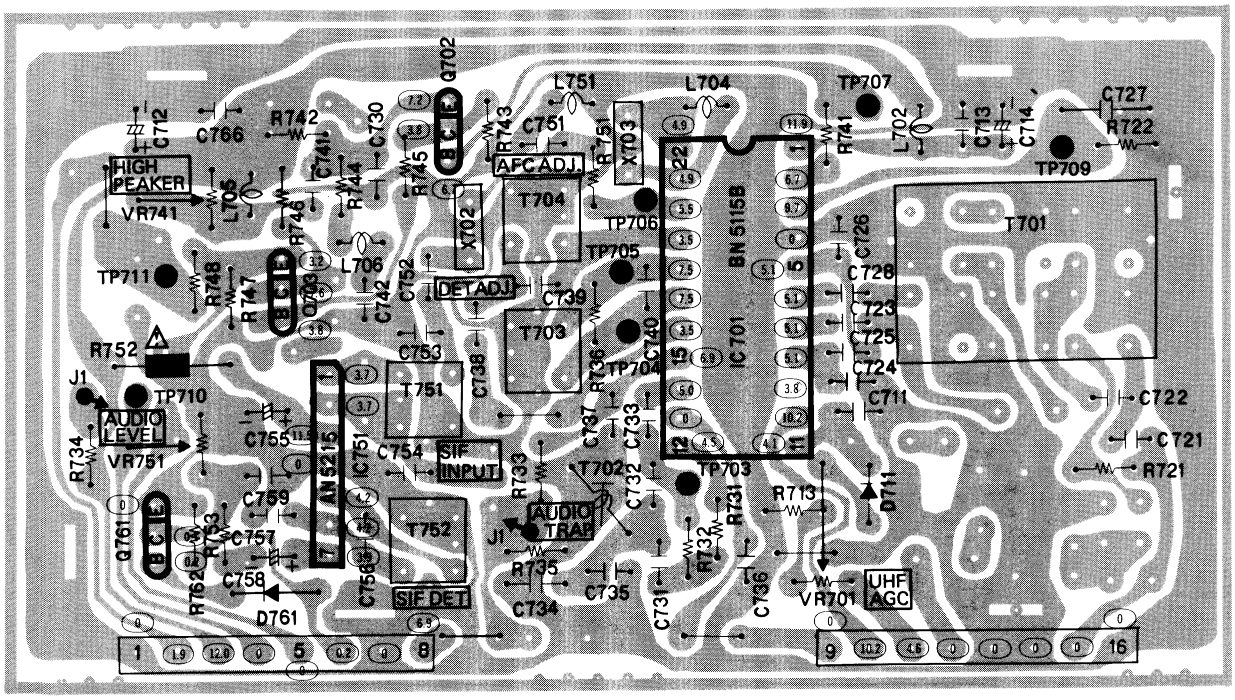

VR7660
MUT. FREQ
IC7651 AN5421
TP7651
TP707
TP709
HIGH PEAKER
VR741
X703
X702
T704 AFC DET
T703 DET ADJ
TP706
TP705
TP704
TP703
IC701 AN5158
T701 VIF TUNING COIL
31.5MHZ TRAP:EG
32.4MHZ TRAP:EO
T705
T751 SIF INPUT
T752 SIF DET
T702 AUDIO TRAP
AUDIO LEVEL
VR751
NV-G10, G7EG
VR701
VR702
U.AGC
V.AGC
J1
J2
J3
D761
D711
D712

3-34. TUNER & TV DEMODULATOR Section In Main Circuit Board (VEP06333H: NV-G10B) (VEP06333L: NV-G7B)



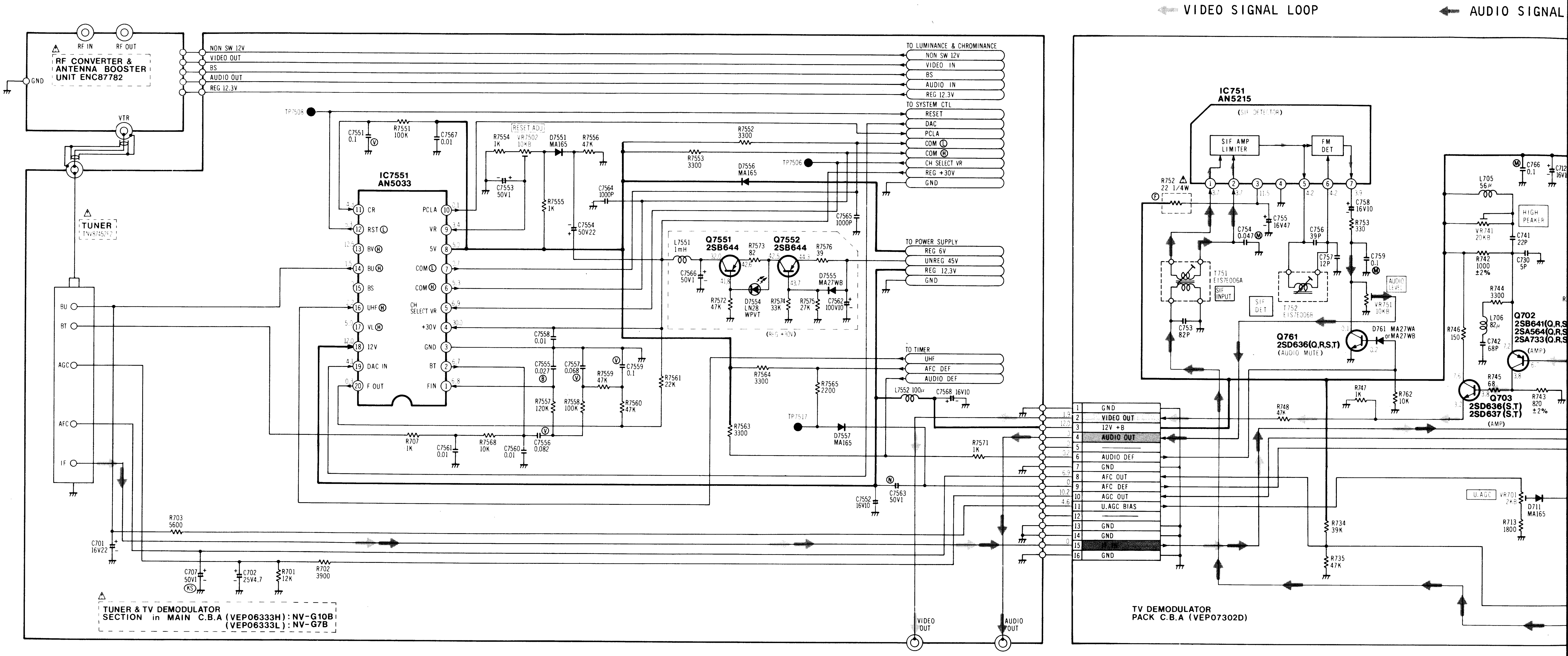
JUMPER (NV-G10,G7EG/EO)
J2
C702
JUMPER C7566 (NV-G10,G7B)
C701
R701
AGC
BU
AGC
BS
BV
B1
AFC
BM
IF
L762,C709 (NV-G10,G7EG/EO)
L791,C705 (NV-G10, G7EG/EO)
C705
L791
JUMPER (NV-G10, G7B)
L701
C707
C708
(NV-G10, G7EG/EO)
(NV-G10, G7B)
(NV-G10, G7EG/EO)
R703
R704
R707
R708 (NV-G10, G7 EG/EO)
TV DEMODULATOR PACK
552 (-G10,G7B)
L7552
(NV-G10,G7EG/EO)
R7567
R7566
DR7551
C7511
C7567
TP7517
C7566
R7574
R7575
L7551
R7554
R7562
RESET LEVEL
VR7502
Q7551
Q7552
D7554
R7573
R7572
C7553
D7555
R7576
R7556
J9
R7555
C7565
C7561
R7552
R7553
C7558
IC7551 AN5033
R7551
R7564
R7563
R7565
D7557
R7571
JUMPER (NV-G10, G7B)
C7564
D7551
R7568
C7560
C7555
C7562
C7554
D7556
C7557
C7559
R7557
R7558
C7556
R7560
R7559
TP7509
R7561
C7563
J3
C7552
C751B
JC
R6024
D6007
D6009
R702
C4003

3-35. TV DEMODULATOR PACK CIRCUIT BOARD (VEP07302D: NV-G10, G7B)



C712
C766
R742
C730
Q702
L751
R743
C751
R751
X703
L704
TP707
R741
L702
C713
C714
C727
R722
TP709
HIGH PEAKER
VR741
L705
C741
R744
R745
R746
AFC ADJ.
T704
TP706
BN 5115B
IC701
C726
T701
X702
L706
TP705
TP711
R748
R747
Q703
C742
C752
DET ADJ.
C739
C728
C723
C725
C724
T703
C740
TP704
R736
C753
R752
J1
TP710
AUDIO LEVEL
VR751
R734
T751
C738
C711
C722
C755
AN5215
IC751
C754
SIF INPUT
C737
C733
C721
R721
R733
T702
C732
TP703
R713
D711
C759
Q761
R763
C757
T752
AUDIO TRAP
J1
R731
R732
C758
R762
R735
C735
C731
C736
VR701
UHF AGC
D761
C756
SIF DET
C734
1
5
8
9
16

3-36. TUNER, TV DEMODULATOR & TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-G10, G7B)

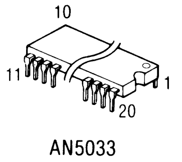


VIDEO SIGNAL LOOP
AUDIO SIGNAL
RF IN
RF OUT
RF CONVERTER & ANTENNA BOOSTER UNIT ENC87782
GND
VTR
NON SW 12V
VIDEO OUT
BS
AUDIO OUT
REG 12.3V
TP7508
TUNER
BU
BT
AGC
AFC
IF
TO LUMINANCE & CHROMINANCE
NON SW 12V
VIDEO IN
BS
AUDIO IN
REG 12.3V
TO SYSTEM CTL
RESET
DAC
PCLA
COM Ⓛ
COM Ⓗ
CH SELECT VR
REG +30V
GND
IC7551
AN5033
CR
RST Ⓛ
BV Ⓗ
BU Ⓗ
BS
UHF Ⓗ
VL Ⓗ
12V
DAC IN
F OUT
PCLA
VR
5V
COM Ⓛ
COM Ⓗ
CH SELECT VR
+30V
GND
BT
FIN
RESET ADJ
VR7502 10KB
D7551 MA165
D7556 MA165
TP7506
Q7551 2SB644
Q7552 2SB644
L7551 1mH
D7554 LN28 WPVT
D7555 MA27WB
(REG +30V)
TO POWER SUPPLY
REG 6V
UNREG 45V
REG 12.3V
GND
TO TIMER
UHF
AFC DEF
AUDIO DEF
L7552 100μ
C7568 16V10
TP7517
D7557 MA165
C7552 16V10
C7563 50V1
VIDEO OUT
AUDIO OUT
TUNER & TV DEMODULATOR SECTION in MAIN C.B.A (VEP06333H) : NV-G10B
(VEP06333L) : NV-G7B
IC751
AN5215
(SIF DETECTOR)
SIF AMP LIMITER
FM DET
R752 22 1/4W
T751 EIS7E006A
SIF INPUT
SIF DET
T752 EIS7E006B
AUDIO LEVEL
VR751 10KB
Q761 2SD636(Q,R,S,T) (AUDIO MUTE)
D761 MA27WA or MA27WB
L705 56μ
HIGH PEAKER
VR741 20KB
R742 1000 ±2%
Q702 2SB641(Q,R,S 2SA564(Q,R,S 2SA733(Q,R,S (AMP)
Q703 2SD636(S,T) 2SD637(S,T) (AMP)
U.AGC
VR701 2KB
D711 MA165
1 GND
2 VIDEO OUT
3 12V +B
4 AUDIO OUT
5
6 AUDIO DEF
7 GND
8 AFC OUT
9 AFC DEF
10 AGC OUT
11 U.AGC BIAS
12
13 GND
14 GND
15
16 GND
TV DEMODULATOR PACK C.B.A (VEP07302D)

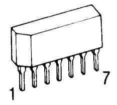
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED

MC-Service

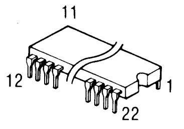
ICs & TRANSISTORs INFORMATION



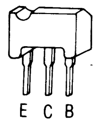
AN5033



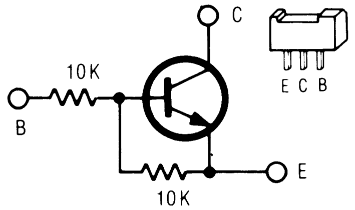
AN5215



BN5115B



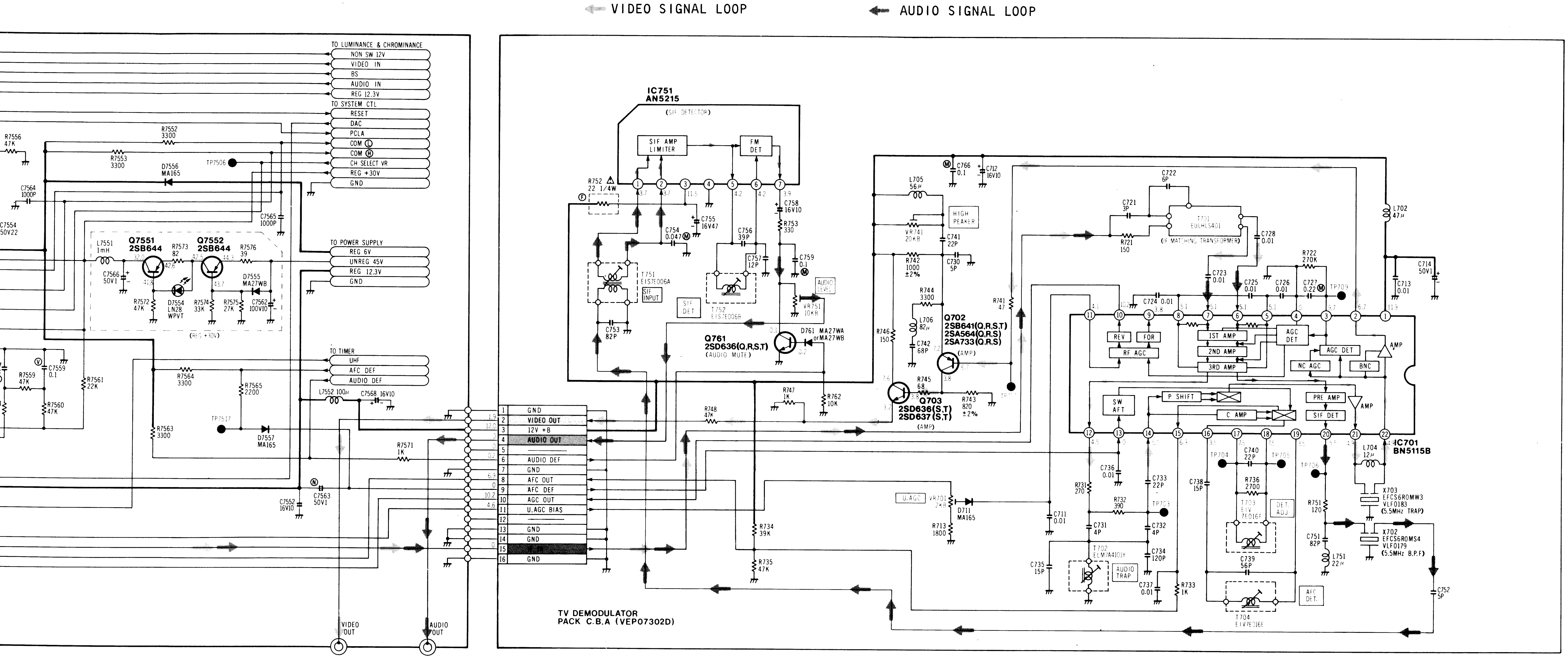
2SD636
2SB641



C
10K
B
E
10K
E C B

DTC114EA

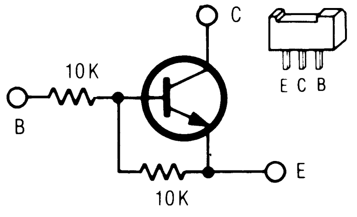
ACK SCHEMATIC DIAGRAM (NV-G10, G7B)


VIDEO SIGNAL LOOP
AUDIO SIGNAL LOOP
TO LUMINANCE & CHROMINANCE
NON SW 12V
VIDEO IN
BS
AUDIO IN
REG 12.3V
TO SYSTEM CTL
RESET
DAC
PCLA
COM Ⓛ
COM Ⓗ
CH SELECT VR
REG +30V
GND
TO POWER SUPPLY
REG 6V
UNREG 45V
REG 12.3V
GND
TO TIMER
UHF
AFC DEF
AUDIO DEF
Q7551 2SB644
Q7552 2SB644
L7551 1mH
D7554 LN28 WPVT
D7555 MA27WB
D7556 MA165
D7557 MA165
TP7506
TP7517
L7552 100μ
VIDEO OUT
AUDIO OUT
GND
VIDEO OUT
12V +B
AUDIO OUT
AUDIO DEF
GND
AFC OUT
AFC DEF
AGC OUT
U.AGC BIAS
GND
GND
GND
IC751 AN5215
(SIF DETECTOR)
SIF AMP LIMITER
FM DET
T751 EIS7E006A
SIF INPUT
SIF DET
T752 EIS7E006B
AUDIO LEVEL
VR751 10KB
Q761 2SD636(Q,R,S,T)
(AUDIO MUTE)
D761 MA27WA or MA27WB
HIGH PEAKER
VR741 20KB
Q702 2SB641(Q,R,S,T) 2SA564(Q,R,S) 2SA733(Q,R,S)
(AMP)
Q703 2SD636(S,T) 2SD637(S,T)
(AMP)
U.AGC
VR701 2KB
D711 MA165
T701 EULHLS401
(IF MATCHING TRANSFORMER)
REV
FOR
RF AGC
1ST AMP
2ND AMP
3RD AMP
AGC DET
AGC DET
NC AGC
BNC
AMP
SW AFT
P SHIFT
C AMP
PRE AMP
SIF DET
AMP
IC701 BN5115B
T702 ELM7A4101Y
AUDIO TRAP
T703 ELV7E016F
DET. ADJ
T704 ELV7E016E
AFC DET.
X703 EFCS6R0MW3 VLF0183 (5.5MHz TRAP)
X702 EFCS6R0MS4 VLF0179 (5.5MHz B.P.F)
L702 47μ
L704 12μ
L751 22μ
TV DEMODULATOR PACK C.B.A (VEP07302D)

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.


C
B
E
10K
10K
E C B

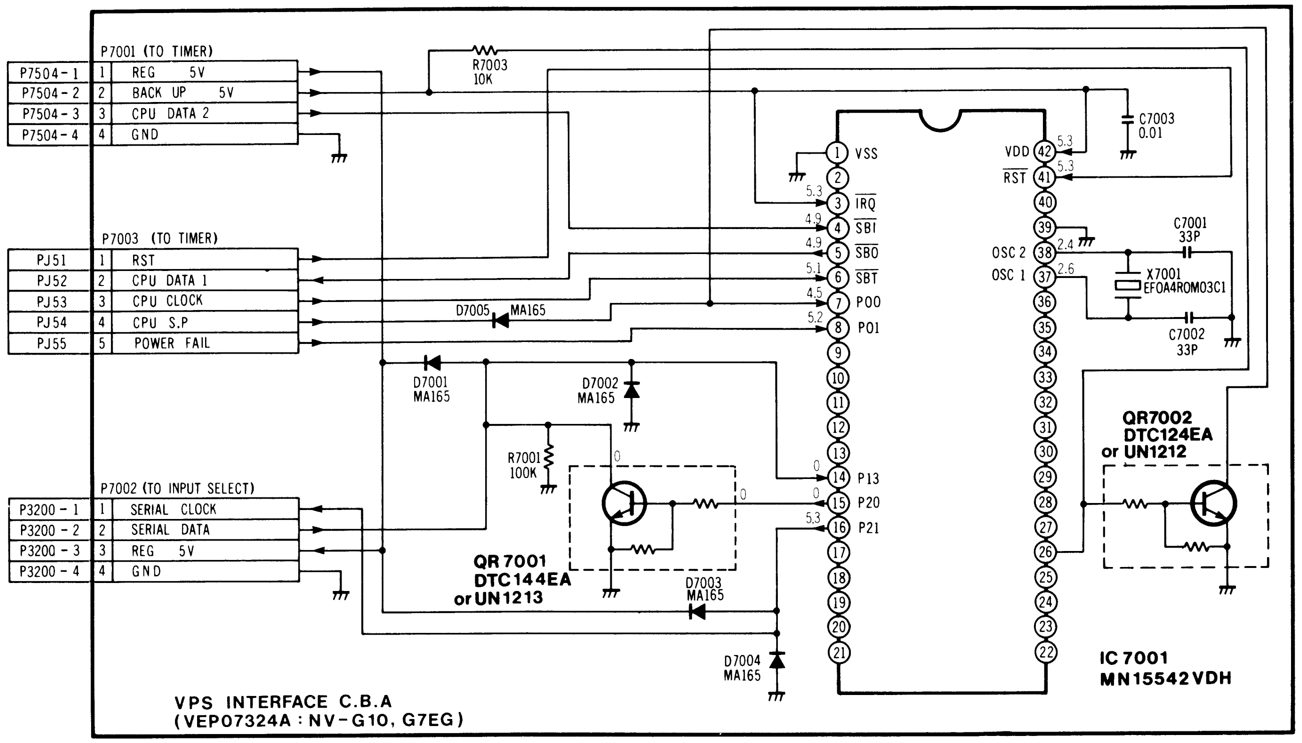
DTC114EA

Next Page:
VPS INTERFACE &
RF CONVERTER Section

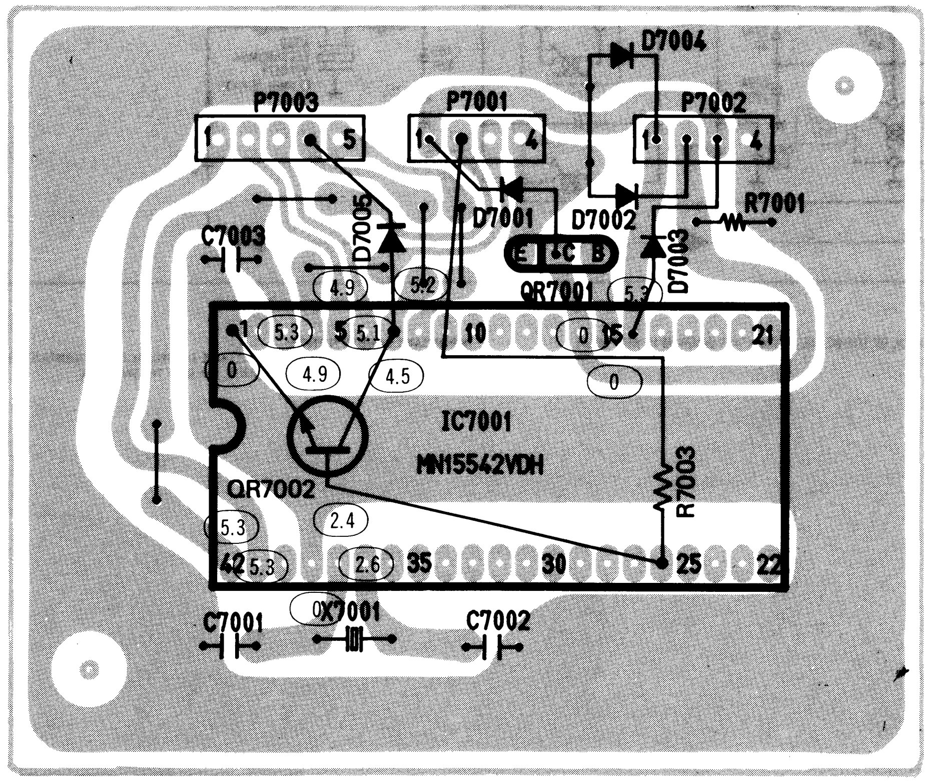
3-37. VPS INTERFACE SCHEMATIC DIAGRAM (NV-G10, G7EG)

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

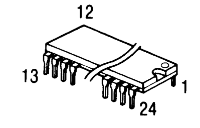
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.


P7001 (TO TIMER)
P7504-1 1 REG 5V
P7504-2 2 BACK UP 5V
P7504-3 3 CPU DATA 2
P7504-4 4 GND
R7003 10K
C7003 0.01
VSS
VDD
RST
IRQ
SBI
SBO
SBT
P00
P01
P13
P20
P21
OSC 2
OSC 1
C7001 33P
X7001 EF0A4R0M03C1
C7002 33P
P7003 (TO TIMER)
PJ51 1 RST
PJ52 2 CPU DATA 1
PJ53 3 CPU CLOCK
PJ54 4 CPU S.P
PJ55 5 POWER FAIL
D7005 MA165
D7001 MA165
D7002 MA165
R7001 100K
QR7002 DTC124EA or UN1212
P7002 (TO INPUT SELECT)
P3200-1 1 SERIAL CLOCK
P3200-2 2 SERIAL DATA
P3200-3 3 REG 5V
P3200-4 4 GND
QR7001 DTC144EA or UN1213
D7003 MA165
D7004 MA165
IC7001 MN15542VDH
VPS INTERFACE C.B.A
(VEP07324A : NV-G10, G7EG)

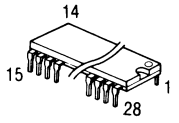
3-38. VPS INTERFACE CIRCUIT BOARD (VEP07324A:


D7004
P7003
P7001
P7002
C7003
D7005
D7001
D7002
R7001
D7003
QR7001
E C B
IC7001
MN15542VDH
QR7002
R7003
C7001
X7001
C7002
5.3
5.1
4.9
4.5
5.2
2.4
2.6
0

ICs & TRANSISTORs INFORMATION



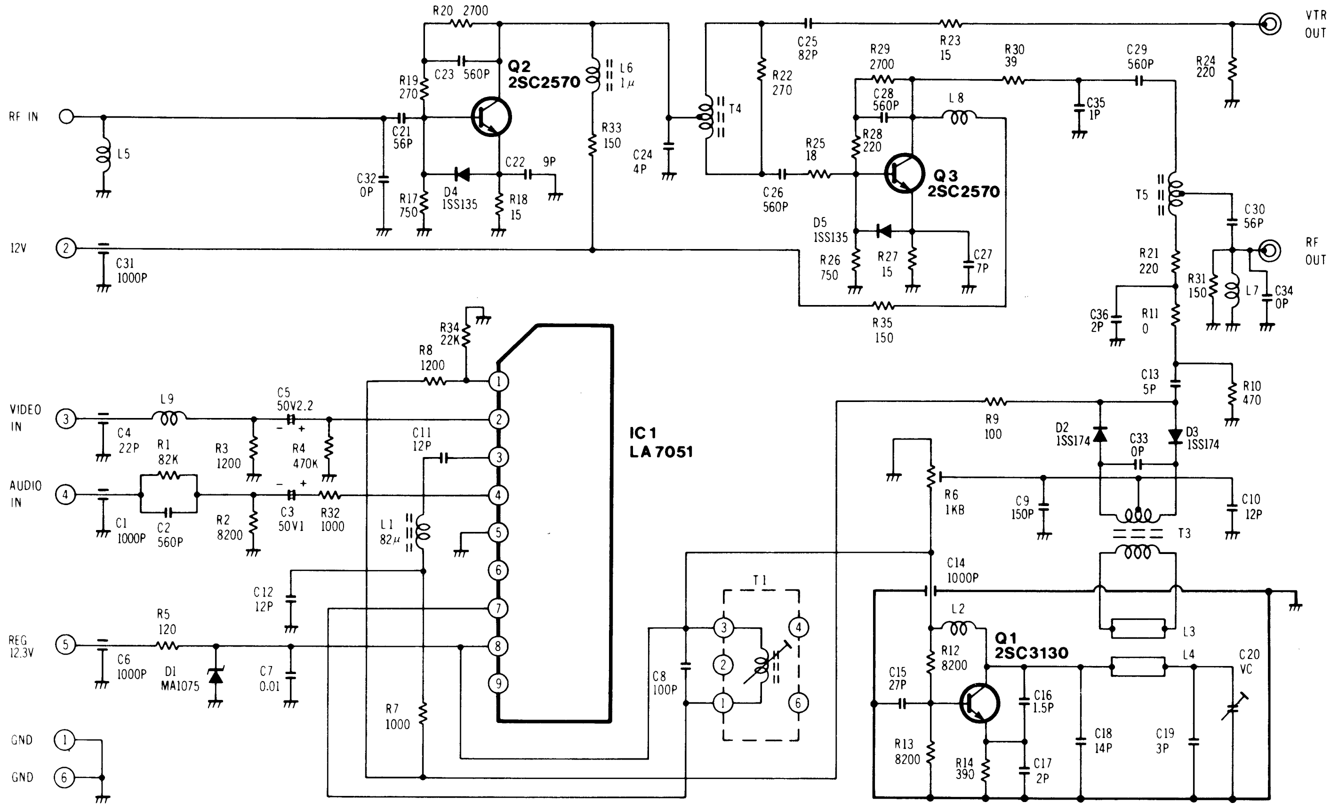
SAF1134P



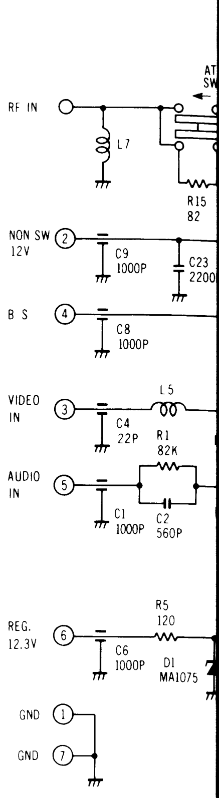
SAA5235

3-39. RF CONVERTER SCHEMATIC DIAGRAM

—Unit No. ENC87786: NV-G10, G7EG—

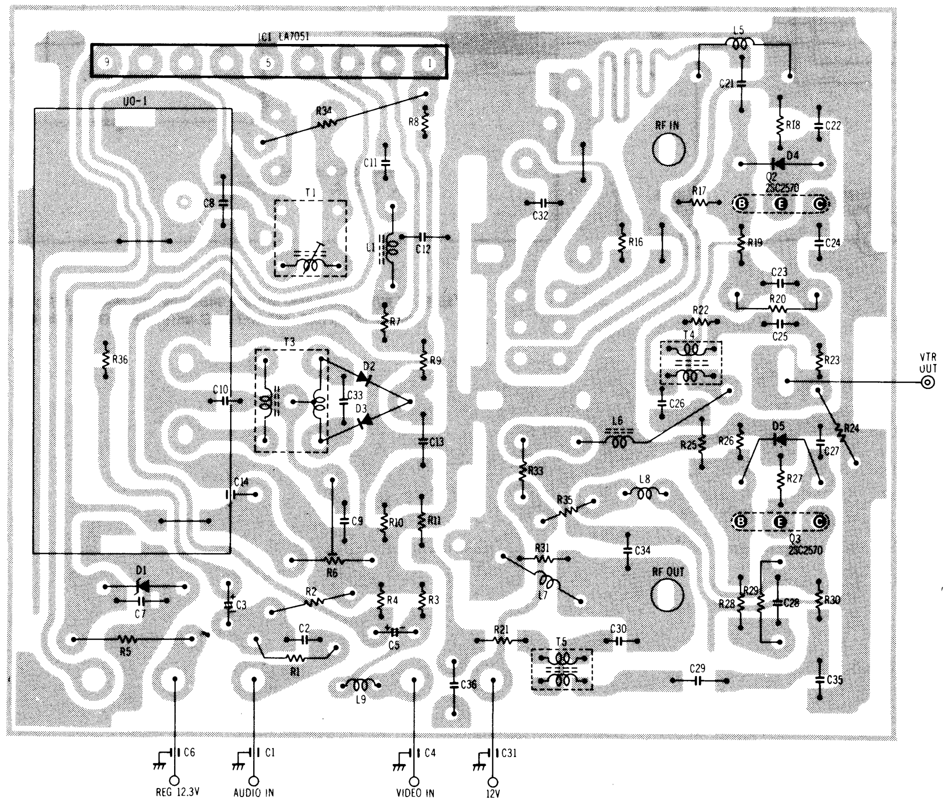

RF IN
12V
VIDEO IN
AUDIO IN
REG 12.3V
GND
VTR OUT
RF OUT
Q2 2SC2570
Q3 2SC2570
Q1 2SC3130
IC1 LA7051
D1 MA1075
D2 1SS174
D3 1SS174
D4 1SS135
D5 1SS135
T1
T3
T4
T5
L1 82μ
L2
L3
L4
L5
L6 1μ
L7
L8
L9
R20 2700
R19 270
R17 750
R18 15
R33 150
R22 270
R29 2700
R23 15
R30 39
R24 220
R25 18
R28 220
R26 750
R27 15
R35 150
R21 220
R31 150
R11 0
R10 470
R34 22K
R8 1200
R9 100
R1 82K
R3 1200
R4 470K
R2 8200
R32 1000
R5 120
R6 1KB
R7 1000
R12 8200
R13 8200
R14 390
C23 560P
C21 56P
C32 0P
C22 9P
C24 4P
C25 82P
C26 560P
C28 560P
C27 7P
C29 560P
C35 1P
C30 56P
C34 0P
C36 2P
C13 5P
C31 1000P
C5 50V2.2
C4 22P
C11 12P
C2 560P
C3 50V1
C1 1000P
C12 12P
C6 1000P
C7 0.01
C8 100P
C9 150P
C33 0P
C10 12P
C14 1000P
C15 27P
C16 1.5P
C17 2P
C18 14P
C19 3P
C20 VC

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.


RF IN
L7
R15 82
NON SW 12V
C9 1000P
C23 2200
B S
C8 1000P
VIDEO IN
L5
C4 22P
R1 82K
AUDIO IN
C1 1000P
C2 560P
R5 120
REG. 12.3V
C6 1000P
D1 MA1075
GND

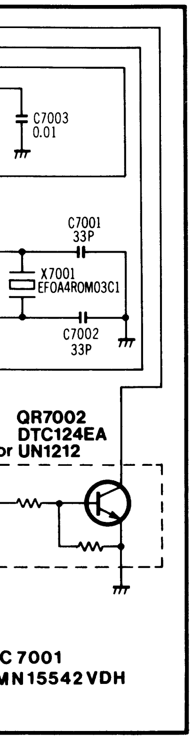
3-40. RF CONVERTER CIRCUIT BOARD

—Unit No. ENC87786: G—

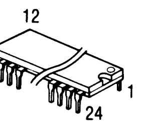

IC1 LA7051
RF IN
RF OUT
VTR OUT
REG 12.3V
AUDIO IN
VIDEO IN
12V
C6
C1
C4
C31
2SC2570

G7EG)

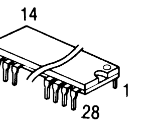
DRAWING FOR ORDERING.
PARTS LIST, AND MAY BE
DRAWING WAS PREPARED.


C7003
0.01
C7001
33P
X7001
EFOA4ROMO3C1
C7002
33P
QR7002
DTC124EA
or UN1212
C 7001
MN15542VDH

TRANSISTORs
RMATION



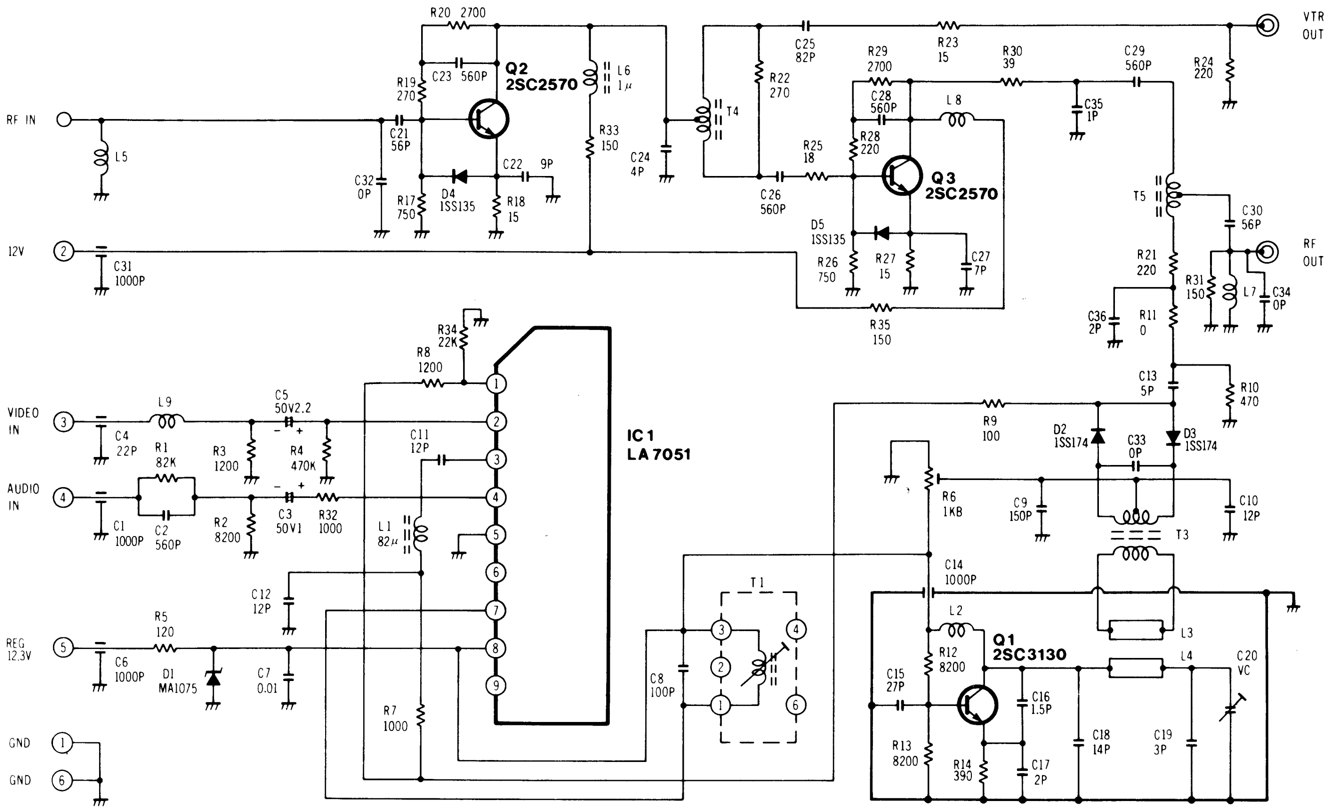
SAF1134P



SAA5235

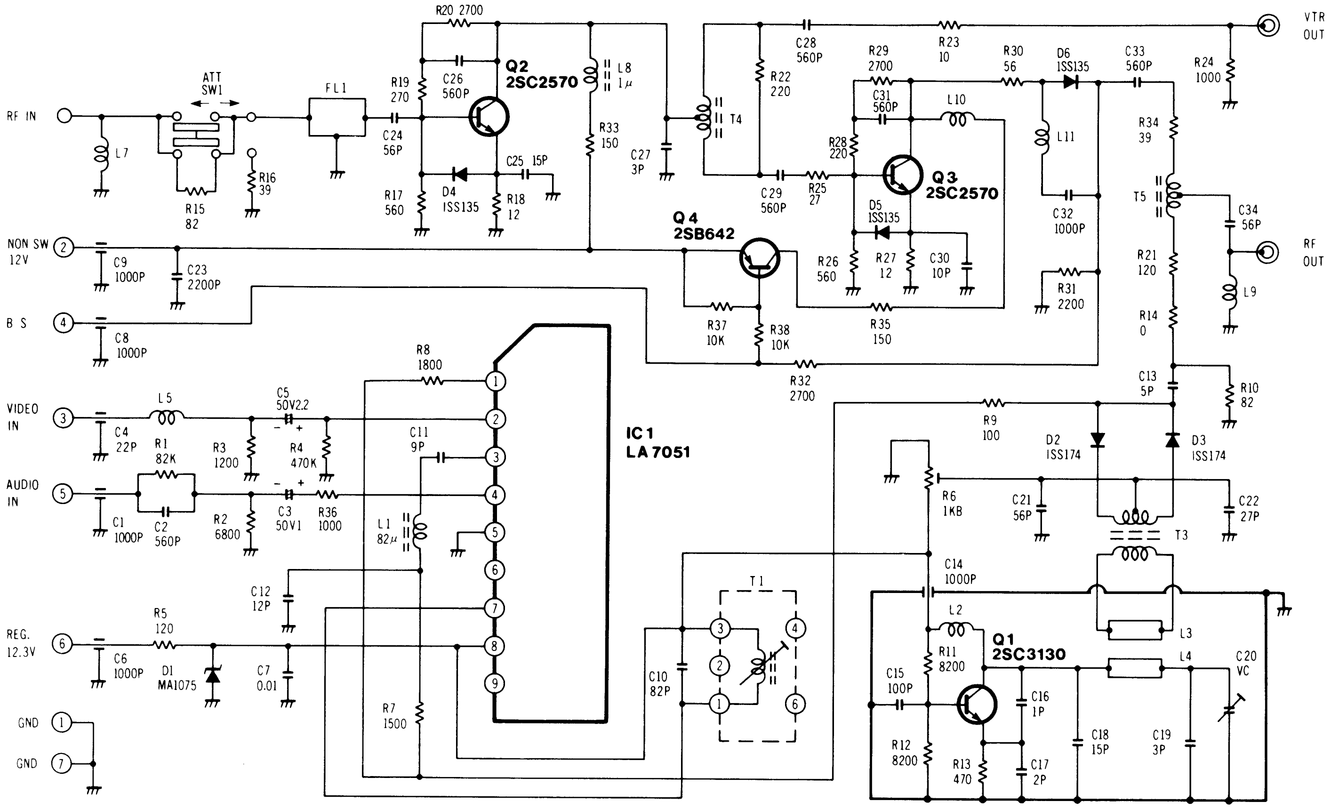
3-39. RF CONVERTER SCHEMATIC DIAGRAM

—Unit No. ENC87786: NV-G10, G7EG—


RF IN
12V
VIDEO IN
AUDIO IN
REG 12.3V
GND
GND
VTR OUT
RF OUT
Q2 2SC2570
Q3 2SC2570
Q1 2SC3130
IC1 LA7051
T1
T3
T4
T5
L1 82μ
L2
L3
L4
L5
L6 1μ
L7
L8
L9
D1 MA1075
D2 1SS174
D3 1SS174
D4 1SS135
D5 1SS135
R1 82K
R2 8200
R3 1200
R4 470K
R5 120
R6 1KB
R7 1000
R8 1200
R9 100
R10 470
R11 0
R12 8200
R13 8200
R14 390
R17 750
R18 15
R19 270
R20 2700
R21 220
R22 270
R23 15
R24 220
R25 18
R26 750
R27 15
R28 220
R29 2700
R30 39
R31 150
R32 1000
R33 150
R34 22K
R35 150
C1 1000P
C2 560P
C3 50V1
C4 22P
C5 50V2.2
C6 1000P
C7 0.01
C8 100P
C9 150P
C10 12P
C11 12P
C12 12P
C13 5P
C14 1000P
C15 27P
C16 1.5P
C17 2P
C18 14P
C19 3P
C20 VC
C21 56P
C22 9P
C23 560P
C24 4P
C25 82P
C26 560P
C27 7P
C28 560P
C29 560P
C30 56P
C31 1000P
C32 0P
C33 0P
C34 0P
C35 1P
C36 2P

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

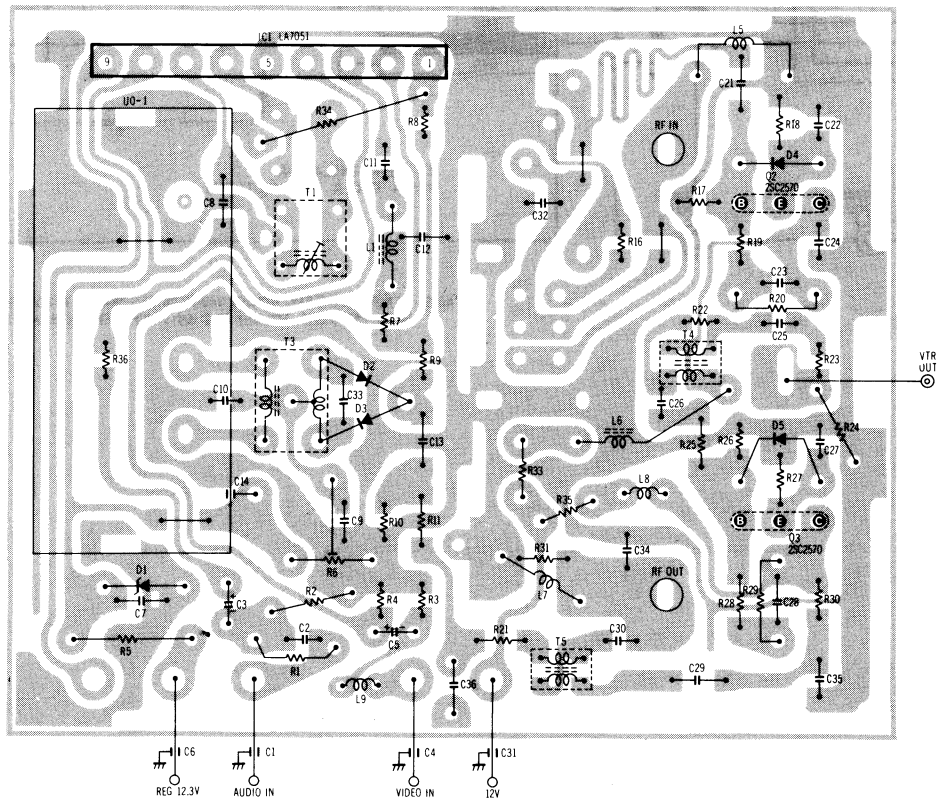
—Unit No. ENC87782: NV-G10, G7B—


RF IN
ATT SW1
FL1
NON SW 12V
B S
VIDEO IN
AUDIO IN
REG. 12.3V
GND
GND
VTR OUT
RF OUT
Q2 2SC2570
Q3 2SC2570
Q4 2SB642
Q1 2SC3130
IC1 LA7051
T1
T3
T4
T5
L1 82μ
L2
L3
L4
L5
L7
L8 1μ
L9
L10
L11
D1 MA1075
D2 1SS174
D3 1SS174
D4 1SS135
D5 1SS135
D6 1SS135
R1 82K
R2 6800
R3 1200
R4 470K
R5 120
R6 1KB
R7 1500
R8 1800
R9 100
R10 82
R11 8200
R12 8200
R13 470
R14 0
R15 82
R16 39
R17 560
R18 12
R19 270
R20 2700
R21 120
R22 220
R23 10
R24 1000
R25 27
R26 560
R27 12
R28 220
R29 2700
R30 56
R31 2200
R32 2700
R33 150
R34 39
R35 150
R36 1000
R37 10K
R38 10K
C1 1000P
C2 560P
C3 50V1
C4 22P
C5 50V2.2
C6 1000P
C7 0.01
C8 1000P
C9 1000P
C10 82P
C11 9P
C12 12P
C13 5P
C14 1000P
C15 100P
C16 1P
C17 2P
C18 15P
C19 3P
C20 VC
C21 56P
C22 27P
C23 2200P
C24 56P
C25 15P
C26 560P
C27 3P
C28 560P
C29 560P
C30 10P
C31 560P
C32 1000P
C33 560P
C34 56P

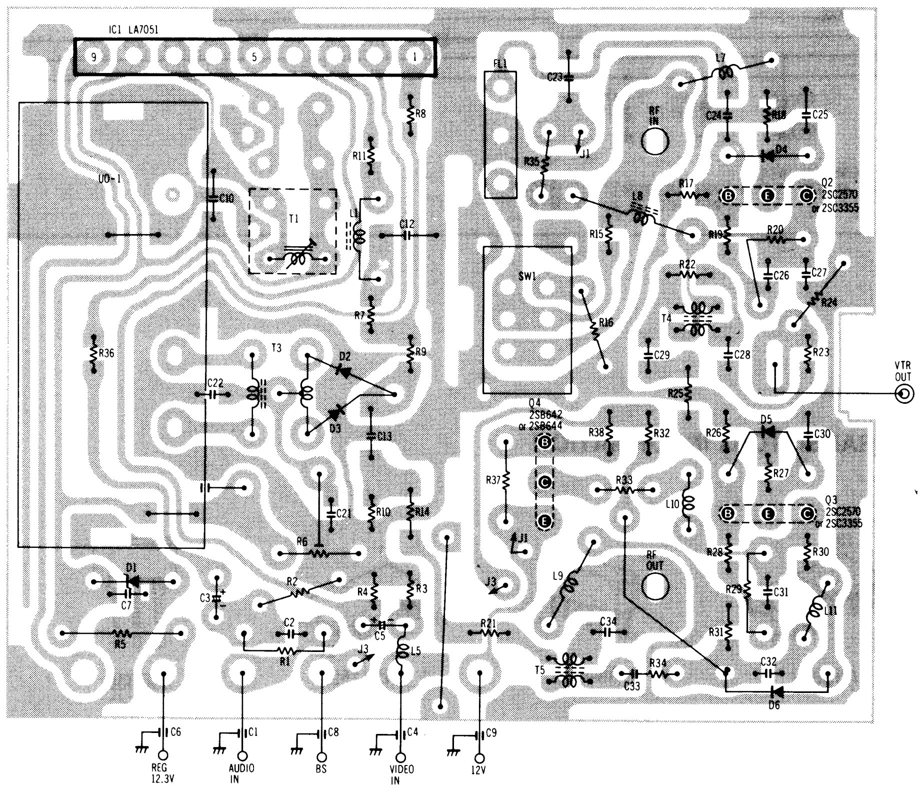
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-40. RF CONVERTER CIRCUIT BOARD

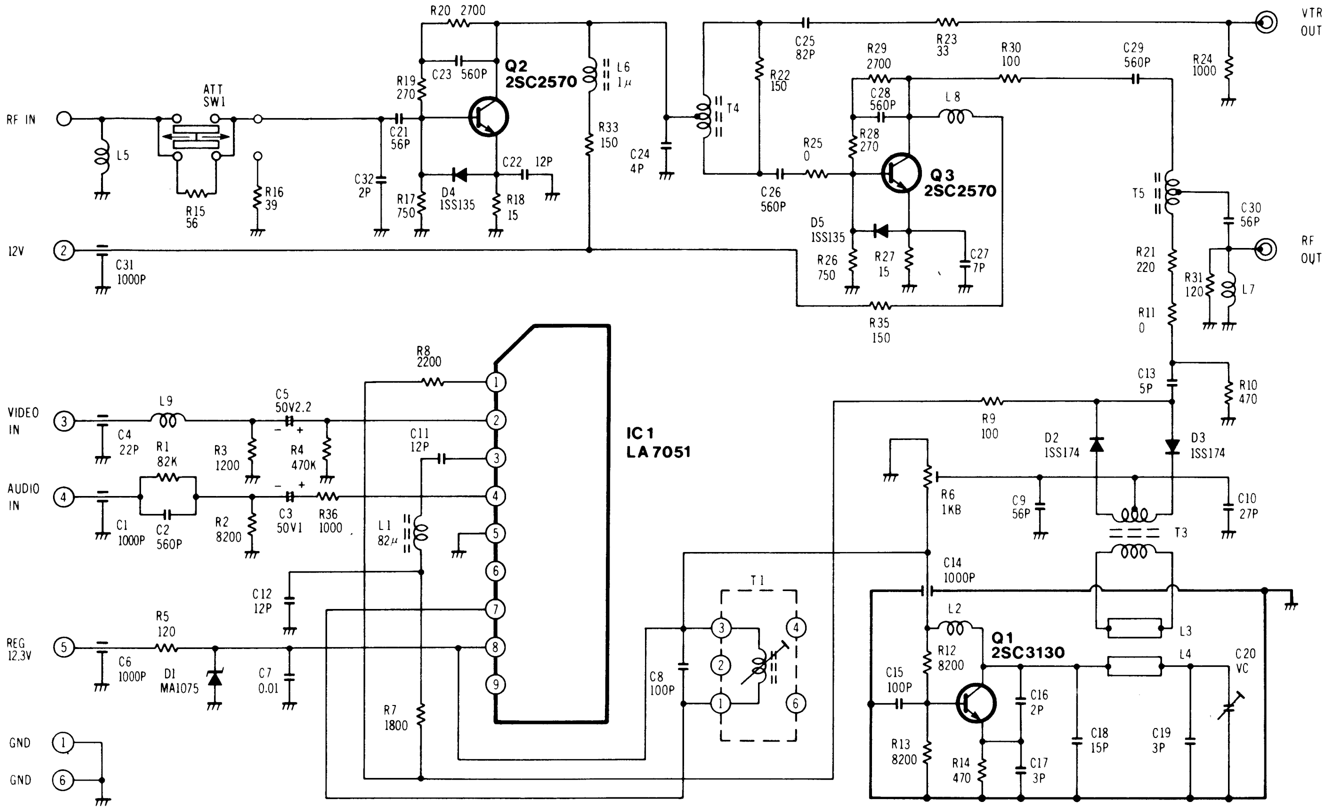
—Unit No. ENC87786: G—


IC1 LA7051
UO-1
RF IN
RF OUT
VTR OUT
Q2 2SC2570
Q3 2SC2570
T1
T3
T4
T5
REG 12.3V
AUDIO IN
VIDEO IN
12V

—Unit No. ENC87782: NV-G10, G7B—

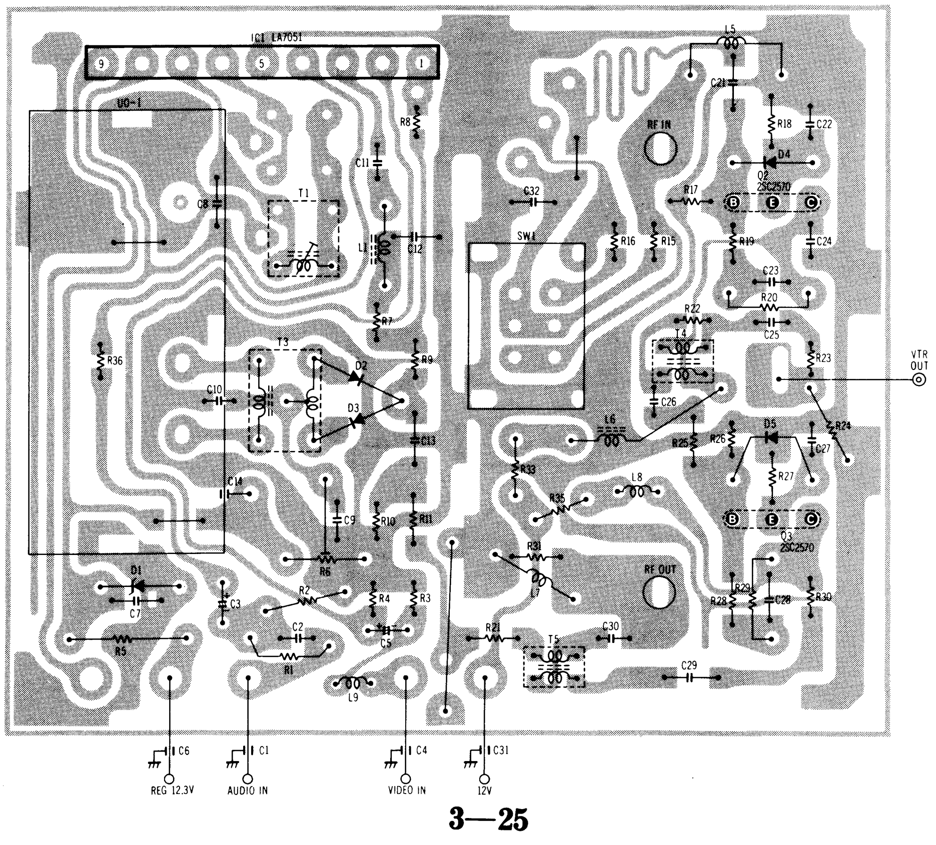

IC1 LA7051
UO-1
FL1
SW1
RF IN
RF OUT
VTR OUT
Q2 2SC2570 or 2SC3355
Q3 2SC2570 or 2SC3355
Q4 2SB642 or 2SB644
T1
T3
T4
T5
REG 12.3V
AUDIO IN
BS
VIDEO IN
12V

—Unit No. ENC87784: NV-G10, G7EO—

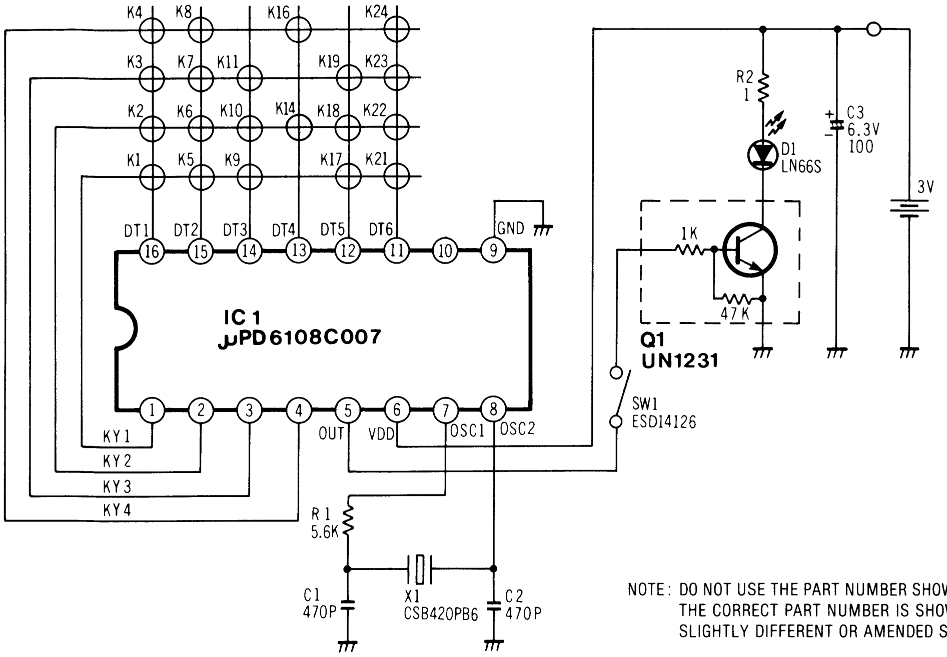

R20 2700
C23 560P
Q2
2SC2570
R19 270
L6 1μ
R33 150
C24 4P
T4
C25 82P
R22 150
R23 33
R29 2700
R30 100
C29 560P
R24 1000
VTR OUT
RF IN
ATT SW1
L5
R15 56
R16 39
C21 56P
C32 2P
R17 750
D4 1SS135
C22 12P
R18 15
C28 560P
L8
R25 0
R28 270
Q3
2SC2570
C26 560P
D5 1SS135
R26 750
R27 15
C27 7P
R35 150
T5
C30 56P
R21 220
R31 120
L7
RF OUT
R11 0
12V
C31 1000P
R8 2200
IC1
LA7051
VIDEO IN
L9
C4 22P
C5 50V2.2
R1 82K
R3 1200
R4 470K
C11 12P
AUDIO IN
C1 1000P
C2 560P
R2 8200
C3 50V1
R36 1000
L1 82μ
C12 12P
REG 12.3V
R5 120
C6 1000P
D1 MA1075
C7 0.01
R7 1800
GND
C8 100P
T1
C13 5P
R10 470
R9 100
D2 1SS174
D3 1SS174
R6 1KB
C9 56P
C10 27P
T3
C14 1000P
L2
R12 8200
Q1
2SC3130
L3
L4
C20 VC
C15 100P
C16 2P
R13 8200
R14 470
C17 3P
C18 15P
C19 3P

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

—Unit No. ENC87784: NV-G10, G7EO—


IC1 LA7051
UO-1
L5
C21
RF IN
R18
C22
D4
R8
C11
C8
T1
L1
C12
C32
SW1
R16
R15
R17
Q2 2SC2570
R19
C24
C23
R20
R22
C25
T4
R23
VTR OUT
C26
R7
R36
T3
D2
D3
R9
C10
C13
L6
R25
R26
D5
C27
R24
R33
L8
R27
C14
R35
C9
R10
R11
R6
Q3 2SC2570
D1
C7
C3
R2
R4
R3
R31
L7
RF OUT
R28
R29
C28
R30
R5
C2
C5
R1
R21
C30
T5
C29
L9
C6
C1
C4
C31
REG 12.3V
AUDIO IN
VIDEO IN
12V

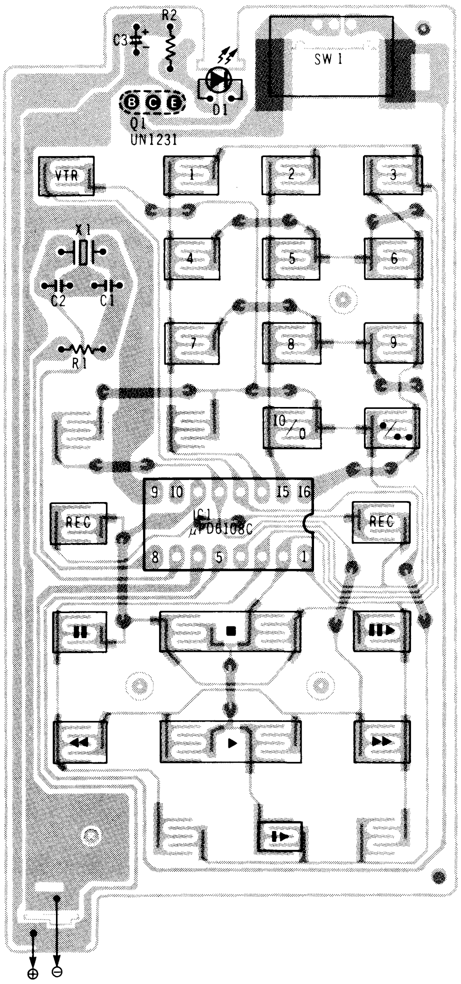
3-41. IR REMOTE CONTROLLER SCHEMATIC DIAGRAM


K4
K8
K16
K24
K3
K7
K11
K19
K23
K2
K6
K10
K14
K18
K22
K1
K5
K9
K17
K21
DT1
DT2
DT3
DT4
DT5
DT6
GND
IC 1
μPD6108C007
KY1
KY2
KY3
KY4
OUT
VDD
OSC1
OSC2
R1
5.6K
C1
470P
X1
CSB420PB6
C2
470P
R2
1
D1
LN66S
C3
6.3V
100
3V
1K
47K
Q1
UN1231
SW1
ESD14126

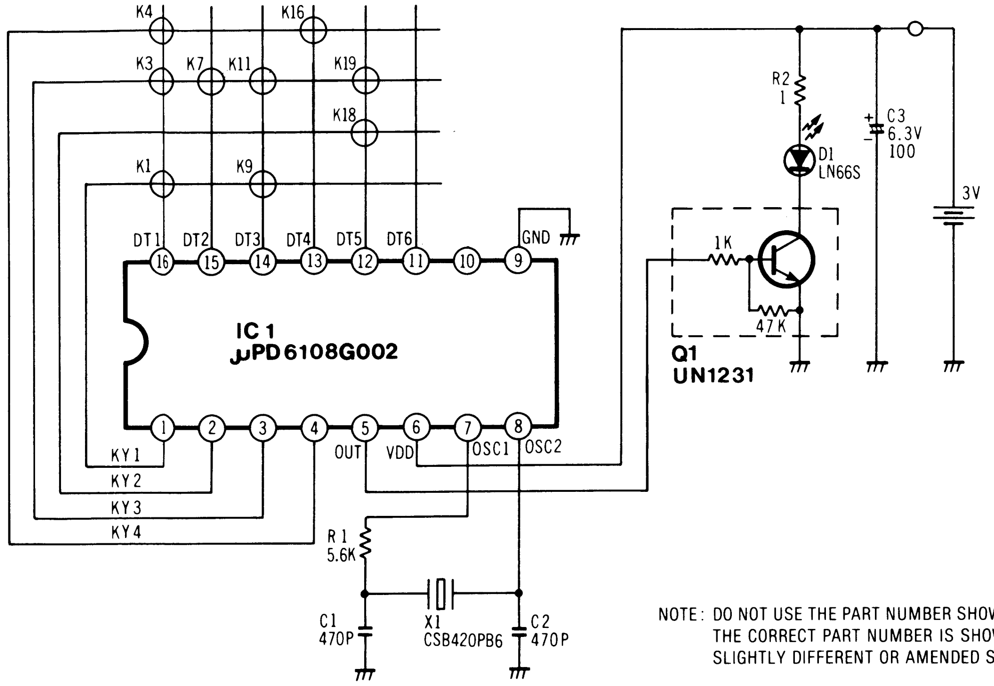
KEY NO.	FUNCTION
1	CH 3
2	CH 6
3	CH 9
4	•/••
5	CH 2
6	CH 5
7	CH 8
8	0 / 10
9	CH 1
10	CH 4
11	CH 7
14	SLOW
16	POWER ON/OFF
17	FF
18	PLAY
19	REW
21	FRAME ADV
22	STOP
23	STILL/PAUSE
24	REC

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-42. IR REMOTE CONTROLLER CIRCUIT BOARD (VEP22034: NV-G10)


R2
C3
SW 1
D1
Q1
UN1231
B C E
VTR
1
2
3
4
5
6
7
8
9
10/0
•/••
X1
C2
C1
R1
IC1
μPD6108C
9
10
15
16
8
5
1
REC
REC
⊕
⊖

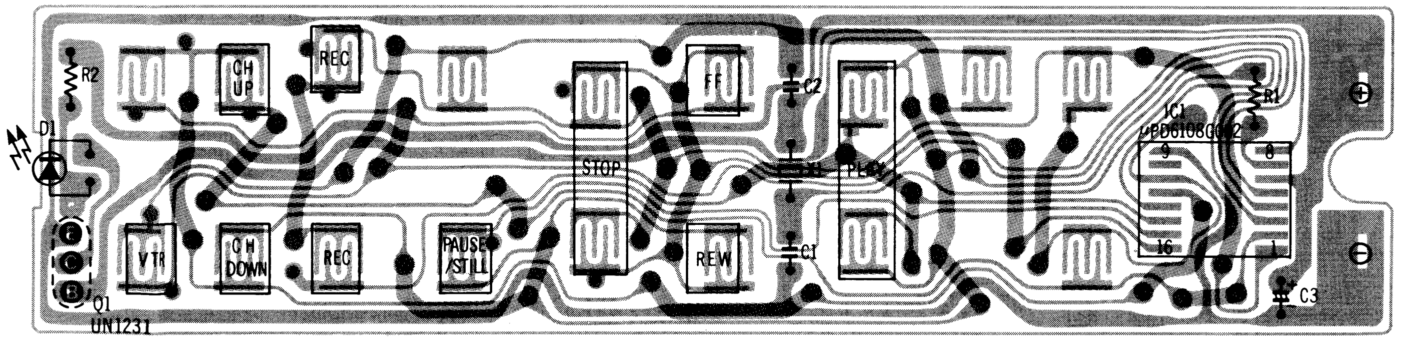
3-43. IR REMOTE CONTROLLER SCHEMATIC DIAGRAM (NV-G7B)


K4
K16
K3
K7
K11
K19
K18
K1
K9
DT1
DT2
DT3
DT4
DT5
DT6
GND
16
15
14
13
12
11
10
9
IC 1
μPD6108G002
1
2
3
4
5
6
7
8
KY1
KY2
KY3
KY4
OUT
VDD
OSC1
OSC2
R1
5.6K
C1
470P
X1
CSB420PB6
C2
470P
R2
1
D1
LN66S
C3
6.3V
100
3V
1K
47K
Q1
UN1231

KEY NO.	FUNCTION
1	STOP
3	REW
4	FF
7	STILL/PAUSE
9	REC
11	PLAY
—	—
—	—
16	VTR
18	CH UP
19	CH DOWN

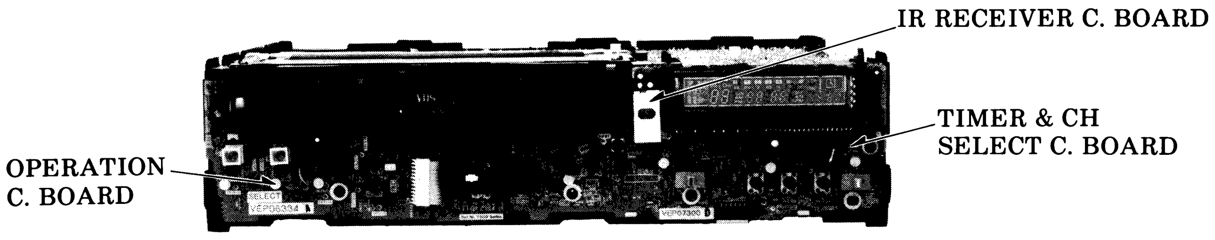
NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING.
THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3-44. IR REMOTE CONTROLLER CIRCUIT BOARD (VEP22046A: NV-G7B)

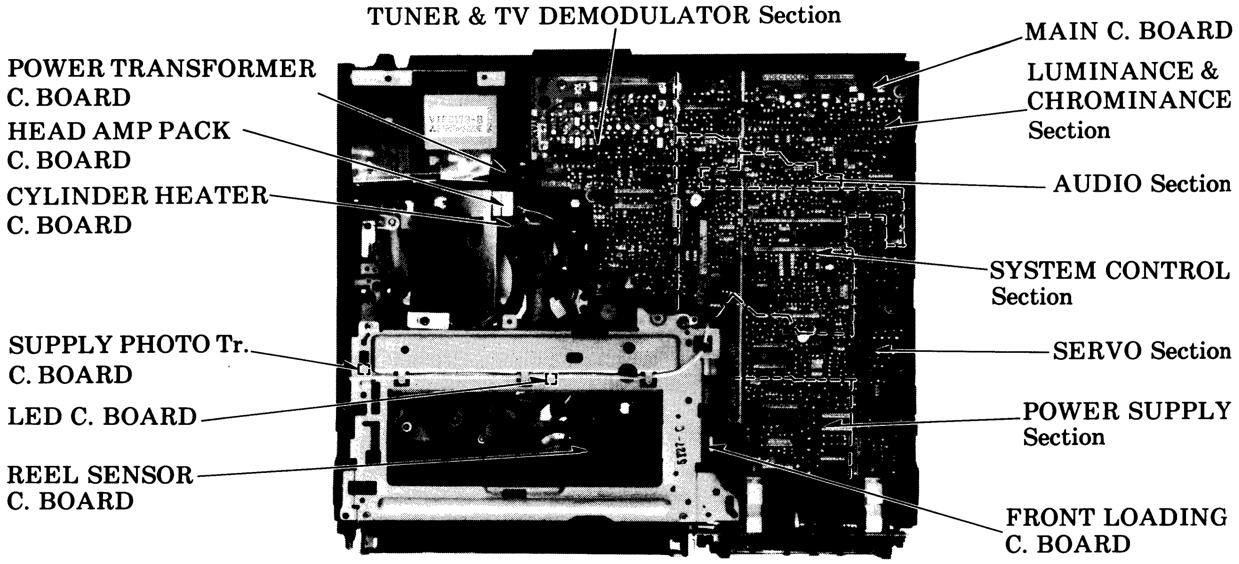

R2
D1
CH UP
REC
FF
C2
R1
IC1
μPD6108G002
9
8
16
1
STOP
X1
PLAY
VTR
CH DOWN
REC
PAUSE /STILL
REW
C1
C3
Q1
UN1231

3-45. CIRCUIT BOARD LAYOUT

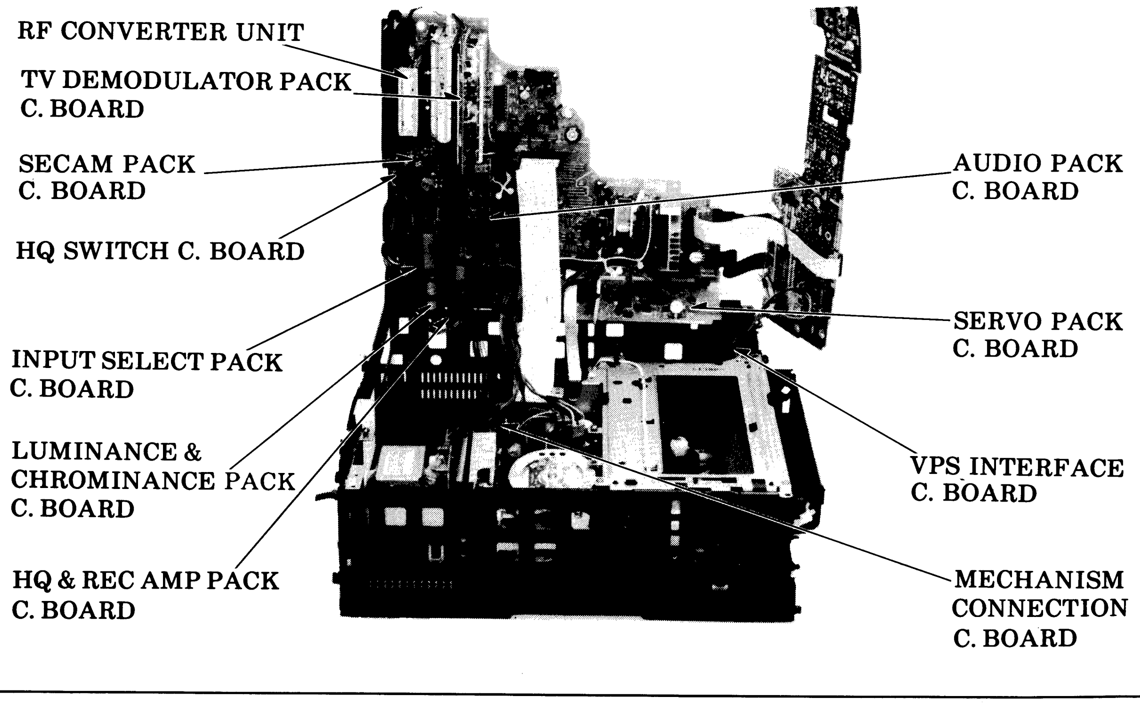
FRONT VIEW


IR RECEIVER C. BOARD
TIMER & CH SELECT C. BOARD
OPERATION C. BOARD

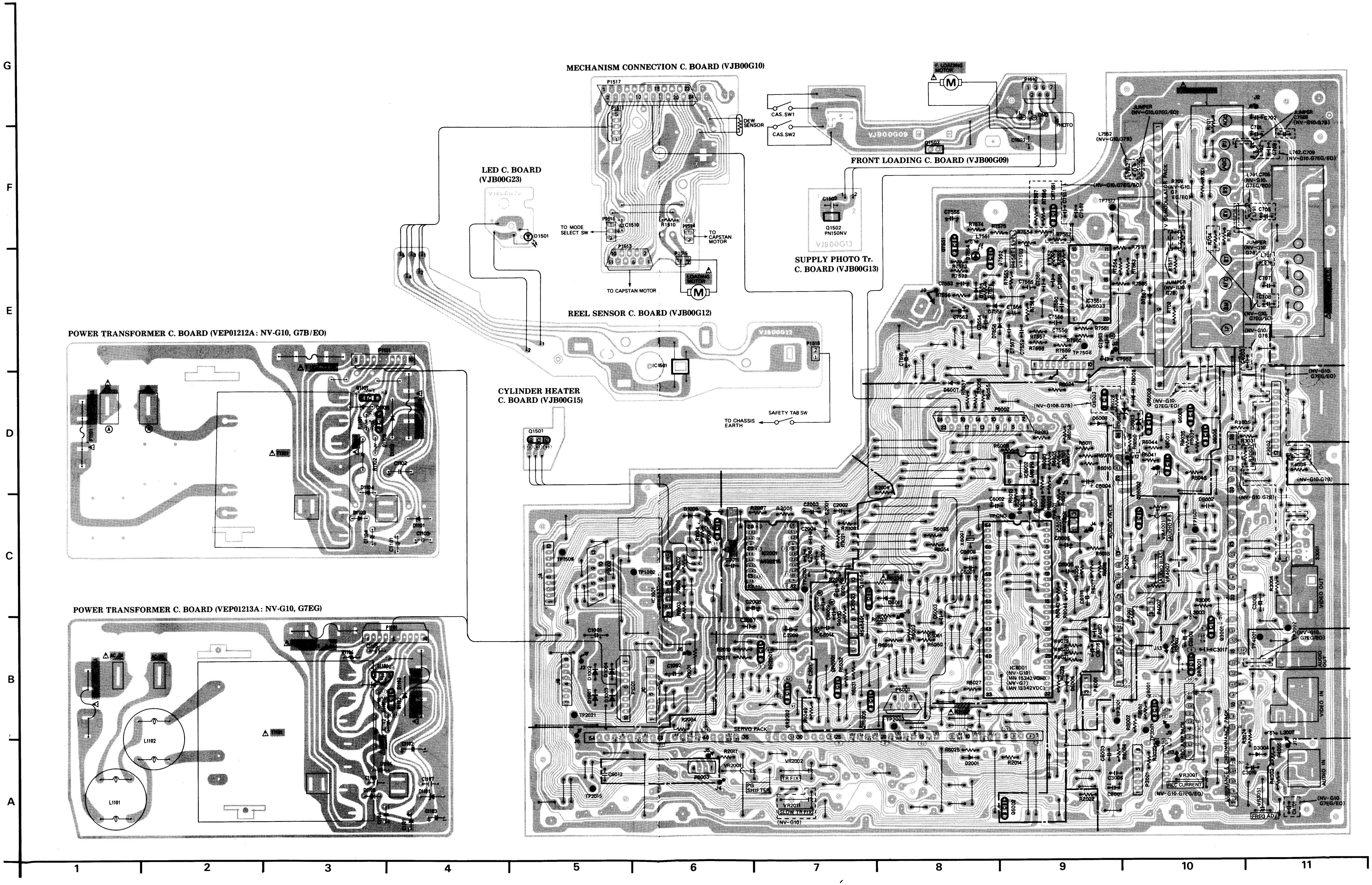
TOP VIEW (1)


TUNER & TV DEMODULATOR Section
POWER TRANSFORMER C. BOARD
HEAD AMP PACK C. BOARD
CYLINDER HEATER C. BOARD
SUPPLY PHOTO Tr. C. BOARD
LED C. BOARD
REEL SENSOR C. BOARD
MAIN C. BOARD
LUMINANCE & CHROMINANCE Section
AUDIO Section
SYSTEM CONTROL Section
SERVO Section
POWER SUPPLY Section
FRONT LOADING C. BOARD

TOP VIEW (2)


RF CONVERTER UNIT
TV DEMODULATOR PACK C. BOARD
SECAM PACK C. BOARD
HQ SWITCH C. BOARD
INPUT SELECT PACK C. BOARD
LUMINANCE & CHROMINANCE PACK C. BOARD
HQ & REC AMP PACK C. BOARD
AUDIO PACK C. BOARD
SERVO PACK C. BOARD
VPS INTERFACE C. BOARD
MECHANISM CONNECTION C. BOARD

3-46. MAIN CIRCUIT BOARD (VEP06333F: NV-G10EG) (VEP06333H: NV-G10B) (VEP06333G: NV-G10EO) (VEP06333P: NV-G7EG) (VEP06333L: NV-G7B) (VEP06333N: NV-G7EO)



G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
MECHANISM CONNECTION C. BOARD (VJB00G10)
FRONT LOADING C. BOARD (VJB00G09)
LED C. BOARD (VJB00G23)
SUPPLY PHOTO Tr. C. BOARD (VJB00G13)
REEL SENSOR C. BOARD (VJB00G12)
CYLINDER HEATER C. BOARD (VJB00G15)
POWER TRANSFORMER C. BOARD (VEP01212A: NV-G10, G7B/EO)
POWER TRANSFORMER C. BOARD (VEP01213A: NV-G10, G7EG)
LOADING MOTOR
TO MODE SELECT SW
TO CAPSTAN MOTOR
TO CHASSIS EARTH
SAFETY TAB SW
CAS. SW1
CAS. SW2
DEW SENSOR
PHOTO
SERVO PACK
VIDEO OUT
AUDIO OUT
VIDEO IN
AUDIO IN

Back Page:
IR REMOTE CONTROLLER Section

MAIN CIRCUIT BOARD ADDRESS INFORMATION

POWER SUPPLY SECTION	
Transistor	
Q1001	C-6
Q1101	D-3 (NV-G10, G7B/EO)
Q1101	B-3 (NV-G10, G7EG)
Q1102	D-3 (NV-G10, G7B/EO)
Q1102	B-4 (NV-G10, G7EG)
Q1501	D-5
Integrated Circuit	
IC1001	C-6
Test Point	
TP1001	C-10
TP1002	C-6

ADDRESS INFORMATION

TUNER & TV DEMODULATOR SECTION	
Transistor	
Q7551	E-8
Q7552	E-8
Transistor & Resistor	
QR7551	F-9 (NV-G10, G7EO/EG)
Integrated Circuit	
IC7551	E-9
Test Point	
TP7506	C-5
TP7508	E-9
TP7517	F-9
Adjustment	
VR7502	E-9

ADDRESS INFORMATION

SERVO SECTION	
Transistor & Resistor	
QR2001	B-7
QR2002	B-7
Integrated Circuit	
IC2001	C-7
Test Point	
TP2001	B-9
TP2002	B-8
TP2015	A-5
TP2020	C-7
TP2021	B-5
Adjustment	
VR2001	A-6
VR2002	A-7
VR2011	A-7 (NV-G10B/EG/EO)

ADDRESS INFORMATION

AUDIO SECTION	
Test Point	
TP4001	B-11
Adjustment	
VR4001	C-10
VR4002	C-10

ADDRESS INFORMATION

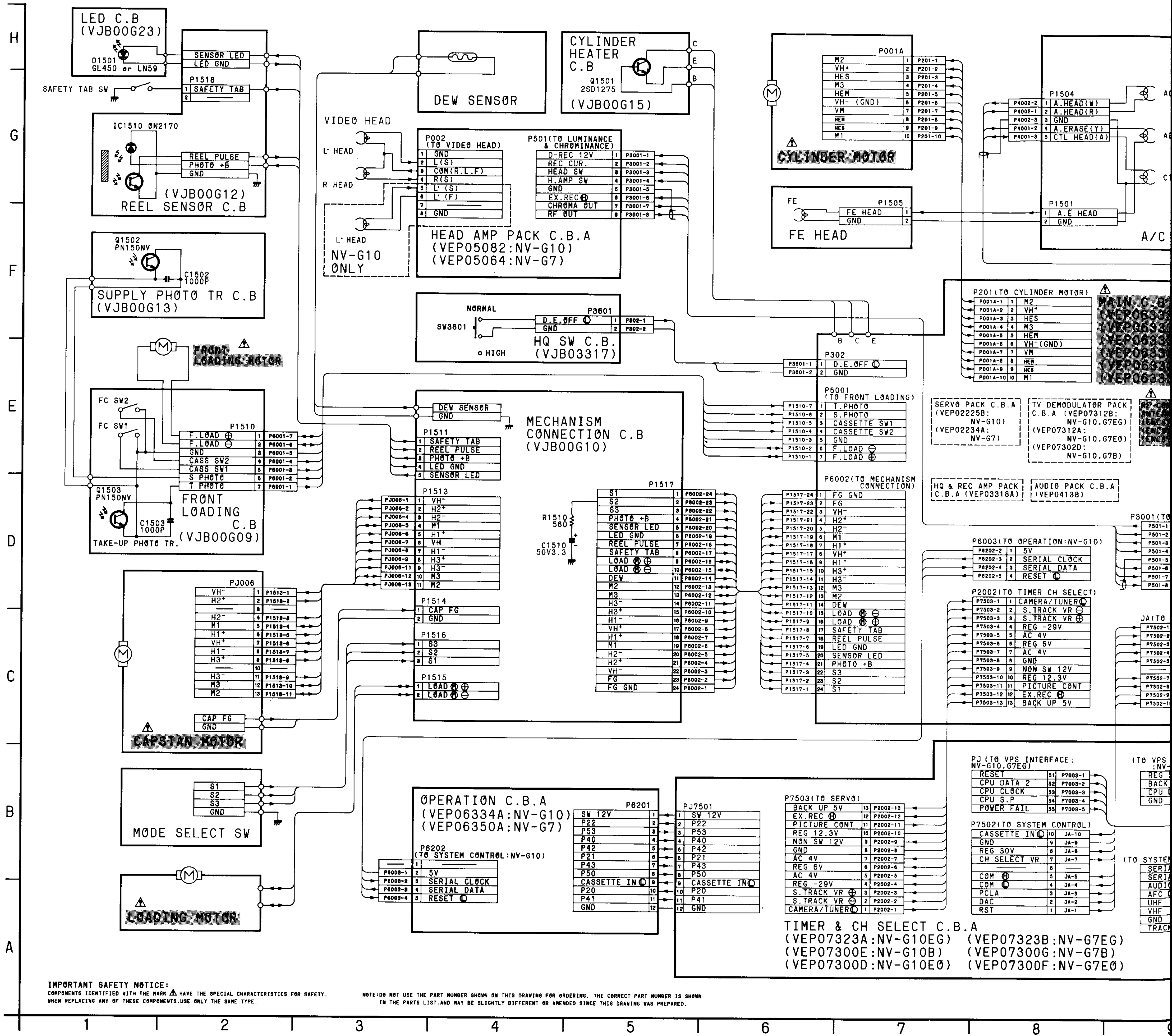
LUMINANCE & CHROMINANCE SECTION	
Transistor	
Q3001	B-10
Q8001	B-10
Transistor & Resistor	
QR8001	B-10
Test Point	
TP3001	B-10
TP3002	B-11
Adjustment	
VR3001	A-10
VR3051	A-11

ADDRESS INFORMATION

SYSTEM CONTROL SECTION	
Transistor	
Q1502	F-7
Q1503	F-8
Q6002	A-9
Q6003	D-9 (NV-G10, G7B)
Q6004	C-7
Q6005	D-10
Q6006	D-10
Q6007	D-10
Transistor & Resistor	
QR6001	B-7
QR6002	C-10
QR6003	D-10
QR6005	B-7
Integrated Circuit	
IC1501	E-6
IC6001	B-9
IC6002	D-9
IC6003	C-7
IC6004	C-9
Test Point	
TP6001	C-9
TP GND	C-9

ADDRESS INFORMATION

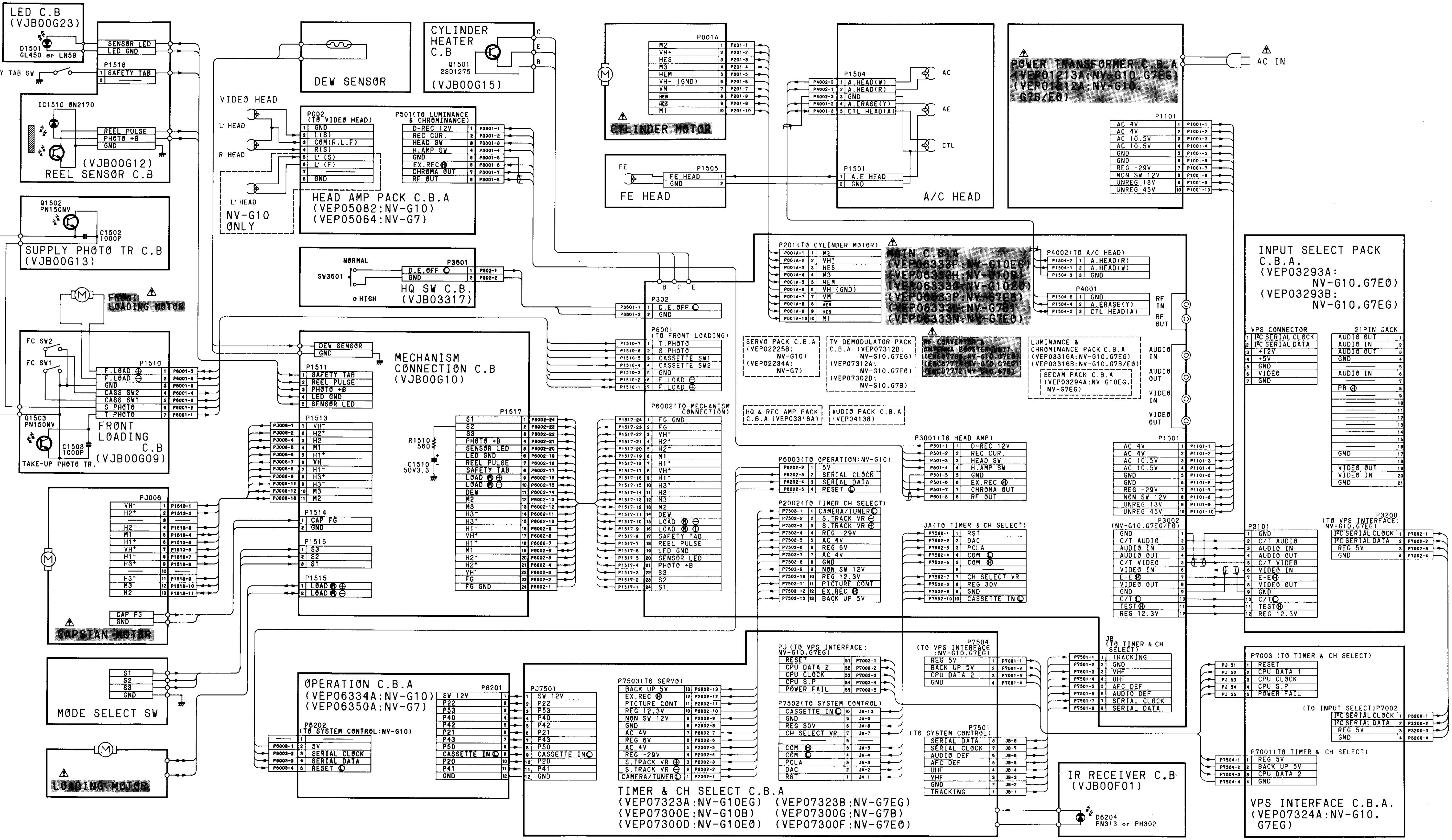
3-47. INTERCONNECTION SCHEMATIC DIAGRAM


LED C.B (VJB00G23)
D1501 GL450 or LN59
SAFETY TAB SW
P1518
SENSOR LED
LED GND
SAFETY TAB
IC1510 ON2170
REEL PULSE
PHOTO +B
GND
(VJB00G12) REEL SENSOR C.B
Q1502 PN150NV
C1502 1000P
SUPPLY PHOTO TR C.B (VJB00G13)
FRONT LOADING MOTOR
FC SW2
FC SW1
P1510
F.LOAD ⊕
F.LOAD ⊖
CASS SW2
CASS SW1
S PHOTO
T PHOTO
Q1503 PN150NV
C1503 1000P
TAKE-UP PHOTO TR.
FRONT LOADING C.B (VJB00G09)
PJ006
CAPSTAN MOTOR
CAP FG
MODE SELECT SW
LOADING MOTOR
DEW SENSOR
CYLINDER HEATER C.B
Q1501 2SD1275
(VJB00G15)
VIDEO HEAD
L' HEAD
R HEAD
L' HEAD
NV-G10 ONLY
P002 (TO VIDEO HEAD)
P501 (TO LUMINANCE & CHROMINANCE)
D-REC 12V
REC CUR.
HEAD SW
H.AMP SW
EX.REC ⊕
CHROMA OUT
RF OUT
HEAD AMP PACK C.B.A (VEP05082:NV-G10) (VEP05064:NV-G7)
NORMAL
SW3601
HIGH
P3601
D.E.OFF
HQ SW C.B. (VJB03317)
MECHANISM CONNECTION C.B (VJB00G10)
P1511
P1513
P1514
P1516
P1515
P1517
R1510 560
C1510 50V3.3
CYLINDER MOTOR
P001A
FE HEAD
P1505
P1504
A.HEAD(W)
A.HEAD(R)
A.ERASE(Y)
CTL HEAD(A)
P1501
A.E HEAD
A/C
P201 (TO CYLINDER MOTOR)
MAIN C.B
P302
P6001 (TO FRONT LOADING)
P6002 (TO MECHANISM CONNECTION)
SERVO PACK C.B.A (VEP02225B: NV-G10) (VEP02234A: NV-G7)
TV DEMODULATOR PACK C.B.A (VEP07312B: NV-G10,G7EG) (VEP07312A: NV-G10,G7EO) (VEP07302D: NV-G10,G7B)
HQ & REC AMP PACK C.B.A (VEP03318A)
AUDIO PACK C.B.A (VEP04138)
P6003 (TO OPERATION:NV-G10)
P2002 (TO TIMER CH SELECT)
P3001
PJ (TO VPS INTERFACE: NV-G10,G7EG)
OPERATION C.B.A (VEP06334A:NV-G10) (VEP06350A:NV-G7)
P6201
P6202 (TO SYSTEM CONTROL:NV-G10)
PJ7501
P7503 (TO SERVO)
P7502 (TO SYSTEM CONTROL)
TIMER & CH SELECT C.B.A
(VEP07323A:NV-G10EG) (VEP07323B:NV-G7EG)
(VEP07300E:NV-G10B) (VEP07300G:NV-G7B)
(VEP07300D:NV-G10EO) (VEP07300F:NV-G7EO)
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.USE ONLY THE SAME TYPE.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST.AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

NTERCONNECTION SCHEMATIC DIAGRAM


LED C.B (VJB00G23)
D1501 GL450 or LN59
SENSOR LED
LED GND
P1518
SAFETY TAB
IC1510 ON2170
REEL PULSE
PHOTO +B
GND
(VJB00G12) REEL SENSOR C.B
Q1502 PN150NV
C1502 1000P
SUPPLY PHOTO TR C.B (VJB00G13)
FRONT LOADING MOTOR
FC SW2
FC SW1
P1510
F.LOAD
GND
CASS SW2
CASS SW1
S PHOTO
T PHOTO
Q1503 PN150NV
C1503 1000P
TAKE-UP PHOTO TR.
FRONT LOADING C.B (VJB00G09)
PJ006
CAPSTAN MOTOR
CAP FG
MODE SELECT SW
S1
S2
S3
LOADING MOTOR
DEW SENSOR
CYLINDER HEATER C.B
Q1501 2SD1275
(VJB00G15)
VIDEO HEAD
L' HEAD
R HEAD
P002 (TO VIDEO HEAD)
P501 (TO LUMINANCE & CHROMINANCE)
D-REC 12V
REC CUR.
HEAD SW
H.AMP SW
EX.REC
CHROMA OUT
RF OUT
NV-G10 ONLY
HEAD AMP PACK C.B.A (VEP05082:NV-G10) (VEP05064:NV-G7)
NORMAL
SW3601
HIGH
P3601
D.E.OFF
HQ SW C.B. (VJB03317)
MECHANISM CONNECTION C.B (VJB00G10)
P1511
P1513
P1514
P1516
P1515
P1517
R1510 560
C1510 50V3.3
OPERATION C.B.A (VEP06334A:NV-G10) (VEP06350A:NV-G7)
P6201
P6202 (TO SYSTEM CONTROL:NV-G10)
PJ7501
CYLINDER MOTOR
P001A
FE
FE HEAD
P1505
P1504
A.HEAD(W)
A.HEAD(R)
A.ERASE(Y)
CTL HEAD(A)
AC
AE
CTL
P1501
A.E HEAD
A/C HEAD
POWER TRANSFORMER C.B.A (VEP01213A:NV-G10,G7EG) (VEP01212A:NV-G10, G7B/EO)
P1101
AC IN
P201 (TO CYLINDER MOTOR)
MAIN C.B.A (VEP06333F:NV-G10EG) (VEP06333H:NV-G10B) (VEP06333G:NV-G10EO) (VEP06333P:NV-G7EG) (VEP06333L:NV-G7B) (VEP06333N:NV-G7EO)
P4002 (TO A/C HEAD)
P4001
P302
P6001 (TO FRONT LOADING)
P6002 (TO MECHANISM CONNECTION)
SERVO PACK C.B.A (VEP02225B: NV-G10) (VEP02234A: NV-G7)
TV DEMODULATOR PACK C.B.A (VEP07312B: NV-G10,G7EG) (VEP07312A: NV-G10,G7EO) (VEP07302D: NV-G10,G7B)
RF CONVERTER & ANTENNA BOOSTER UNIT (ENC67766:NV-G10,G7EG) (ENC67774:NV-G10,G7EO) (ENC67772:NV-G10,G7B)
LUMINANCE & CHROMINANCE PACK C.B.A (VEP03316A:NV-G10,G7EG) (VEP03316B:NV-G10,G7B/EO)
SECAM PACK C.B.A (VEP03294A:NV-G10EG, NV-G7EG)
HQ & REC AMP PACK C.B.A (VEP03318A)
AUDIO PACK C.B.A (VEP04138)
RF IN
RF OUT
AUDIO IN
AUDIO OUT
VIDEO IN
VIDEO OUT
P3001 (TO HEAD AMP)
P1001
P6003 (TO OPERATION:NV-G10)
P2002 (TO TIMER CH SELECT)
JA (TO TIMER & CH SELECT)
P3002 (NV-G10,G7EG/EO)
INPUT SELECT PACK C.B.A. (VEP03293A: NV-G10,G7EO) (VEP03293B: NV-G10,G7EG)
VPS CONNECTOR
21PIN JACK
P3101
P3200 (TO VPS INTERFACE: NV-G10,G7EG)
PJ (TO VPS INTERFACE: NV-G10,G7EG)
P7504 (TO VPS INTERFACE :NV-G10,G7EG)
JB (TO TIMER & CH SELECT)
P7503 (TO SERVO)
P7502 (TO SYSTEM CONTROL)
P7501 (TO SYSTEM CONTROL)
TIMER & CH SELECT C.B.A (VEP07323A:NV-G10EG) (VEP07323B:NV-G7EG) (VEP07300E:NV-G10B) (VEP07300G:NV-G7B) (VEP07300D:NV-G10EO) (VEP07300F:NV-G7EO)
IR RECEIVER C.B (VJB00F01)
D6204 PN313 or PH302
P7003 (TO TIMER & CH SELECT)
(TO INPUT SELECT) P7002
P7001 (TO TIMER & CH SELECT)
VPS INTERFACE C.B.A. (VEP07324A:NV-G10, G7EG)

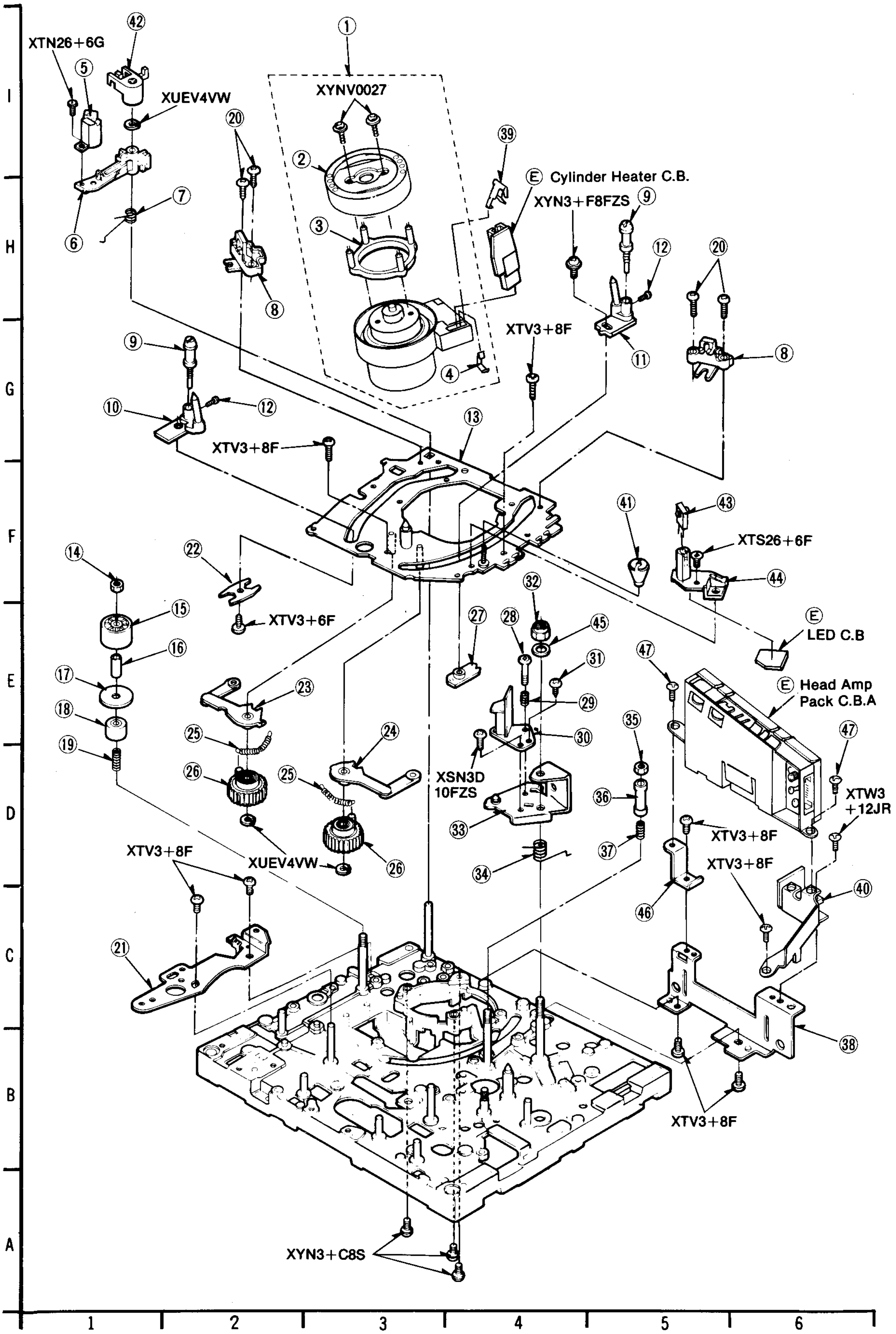
RTANT SAFETY NOTICE:
NENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
REPLACING ANY OF THESE COMPONENTS.USE ONLY THE SAME TYPE.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST.AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

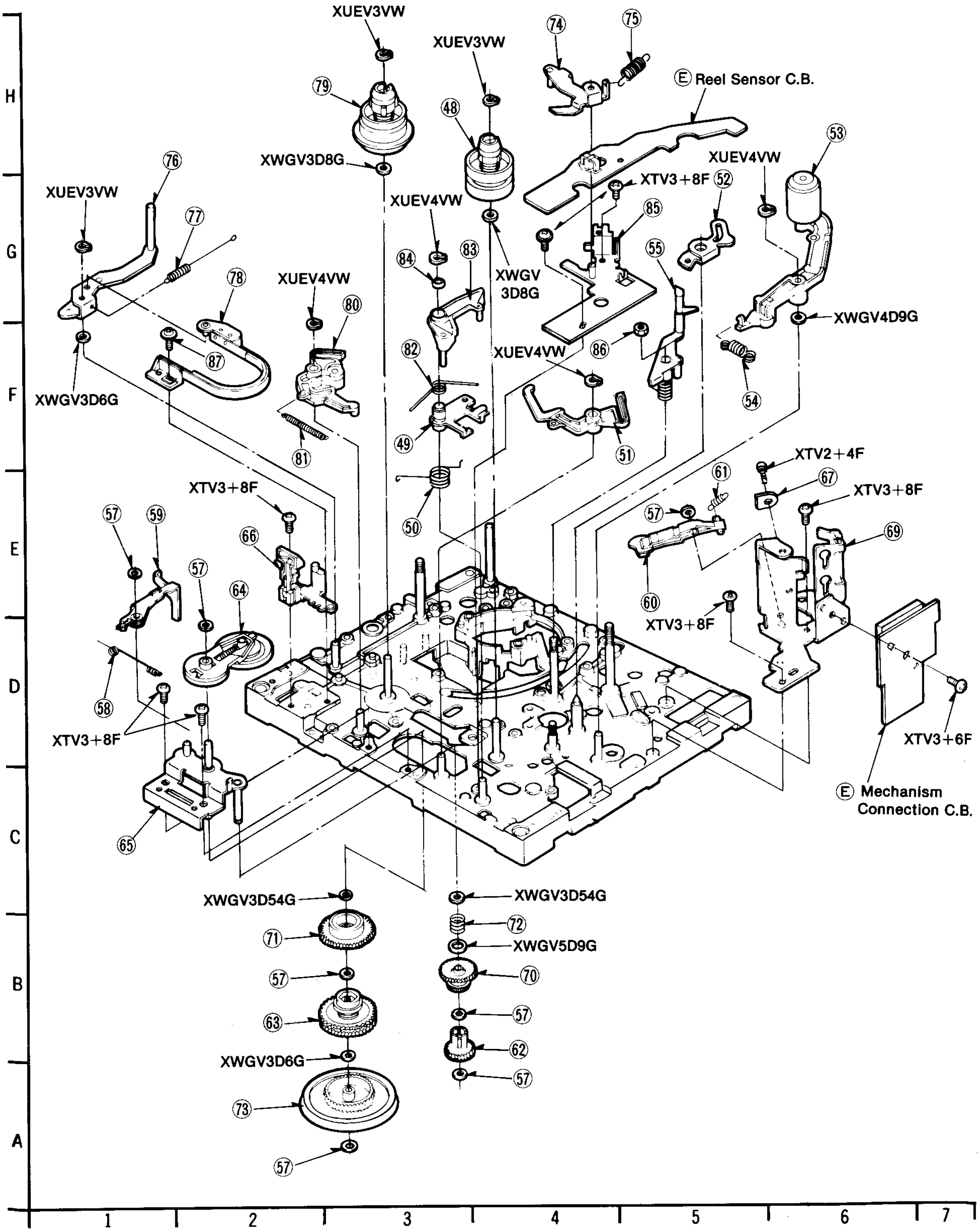
1 2 3 4 5 6 7 8 9 10 11 12 13

SECTION 4
EXPLODED VIEWS & PARTS LIST

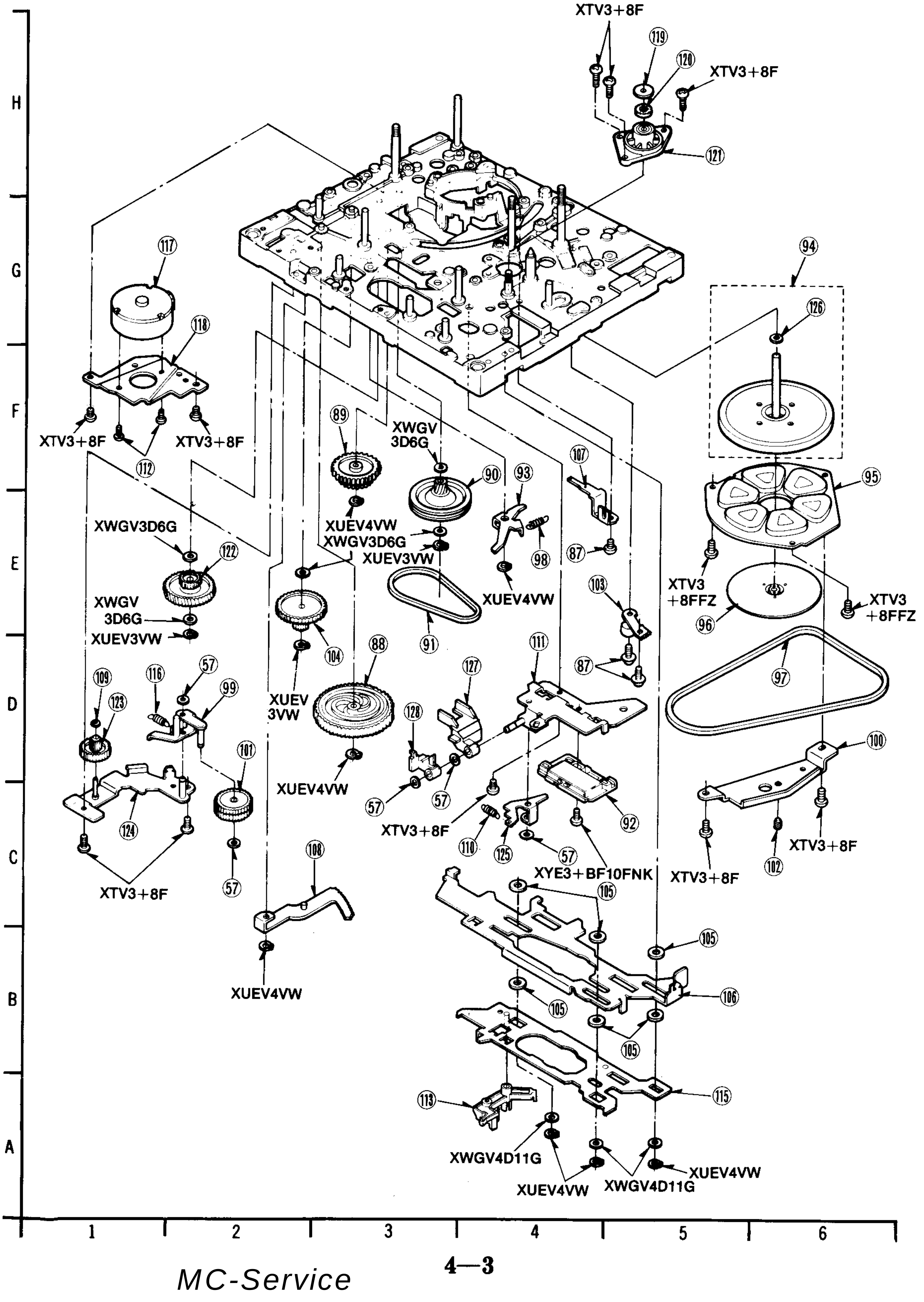
4-1. EXPLODED VIEW ❶ TRANSPORT SECTION


㊷
①
XTN26+6G
⑤
XUEV4VW
XYNV0027
⑳
②
㊴
Ⓔ Cylinder Heater C.B.
XYN3+F8FZS
⑨
⑦
③
⑫
⑳
⑥
⑧
⑪
XTV3+8F
⑧
⑨
④
⑫
⑩
⑬
XTV3+8F
㊶
㊸
XTS26+6F
⑭
㉒
㊹
⑮
XTV3+6F
㉜
㉗
㉘
㊺
Ⓔ LED C.B
⑯
㉛
㊼
⑰
㉓
Ⓔ Head Amp Pack C.B.A
㉙
⑱
㉕
㉔
㉚
㉟
㊼
⑲
㉖
㉕
XSN3D 10FZS
㊱
XTW3 +12JR
㉝
XTV3+8F
㊲
XTV3+8F
XUEV4VW
㉖
㉞
㊵
㊻
㉑
㊳
XTV3+8F
XYN3+C8S
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6

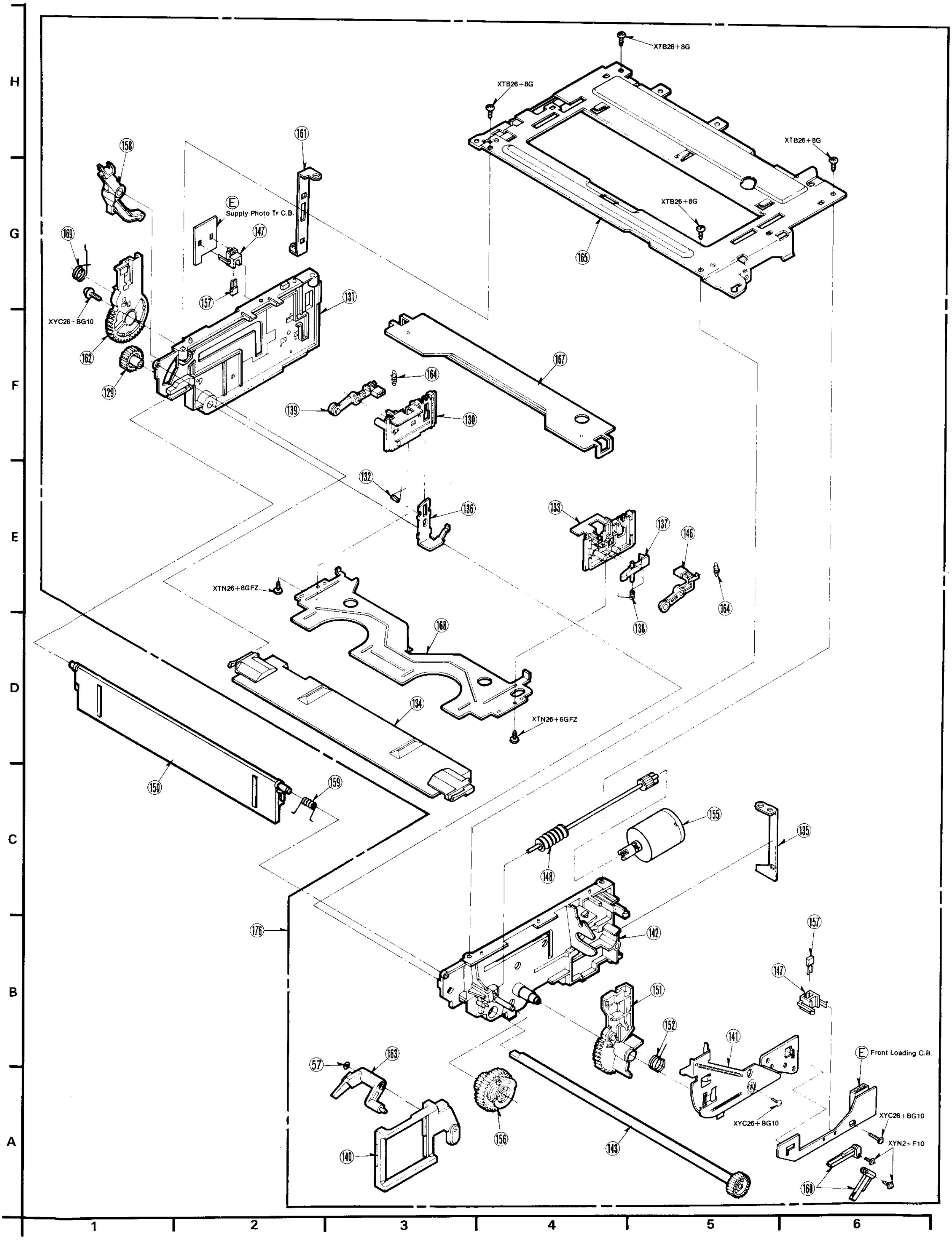
❷ MOVING MECHANISM SECTION


XUEV3VW
(79)
XWGV3D8G
XUEV3VW
㊽
(74)
(75)
Ⓔ Reel Sensor C.B.
(76)
XUEV3VW
(77)
(78)
XUEV4VW
(80)
XUEV4VW
(84)
(83)
XWGV
3D8G
XTV3+8F
(52)
(85)
(55)
XUEV4VW
(53)
XWGV4D9G
(87)
(82)
XUEV4VW
(86)
(54)
XWGV3D6G
(81)
㊾
(51)
㊿
XTV3+8F
(66)
(57)
(59)
(57)
(64)
(61)
(57)
XTV2+4F
(67)
XTV3+8F
(69)
(60)
XTV3+8F
(58)
XTV3+8F
XTV3+6F
Ⓔ Mechanism
Connection C.B.
(65)
XWGV3D54G
(71)
(57)
(63)
XWGV3D6G
(73)
(57)
XWGV3D54G
(72)
XWGV5D9G
(70)
(57)
(62)
(57)
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7

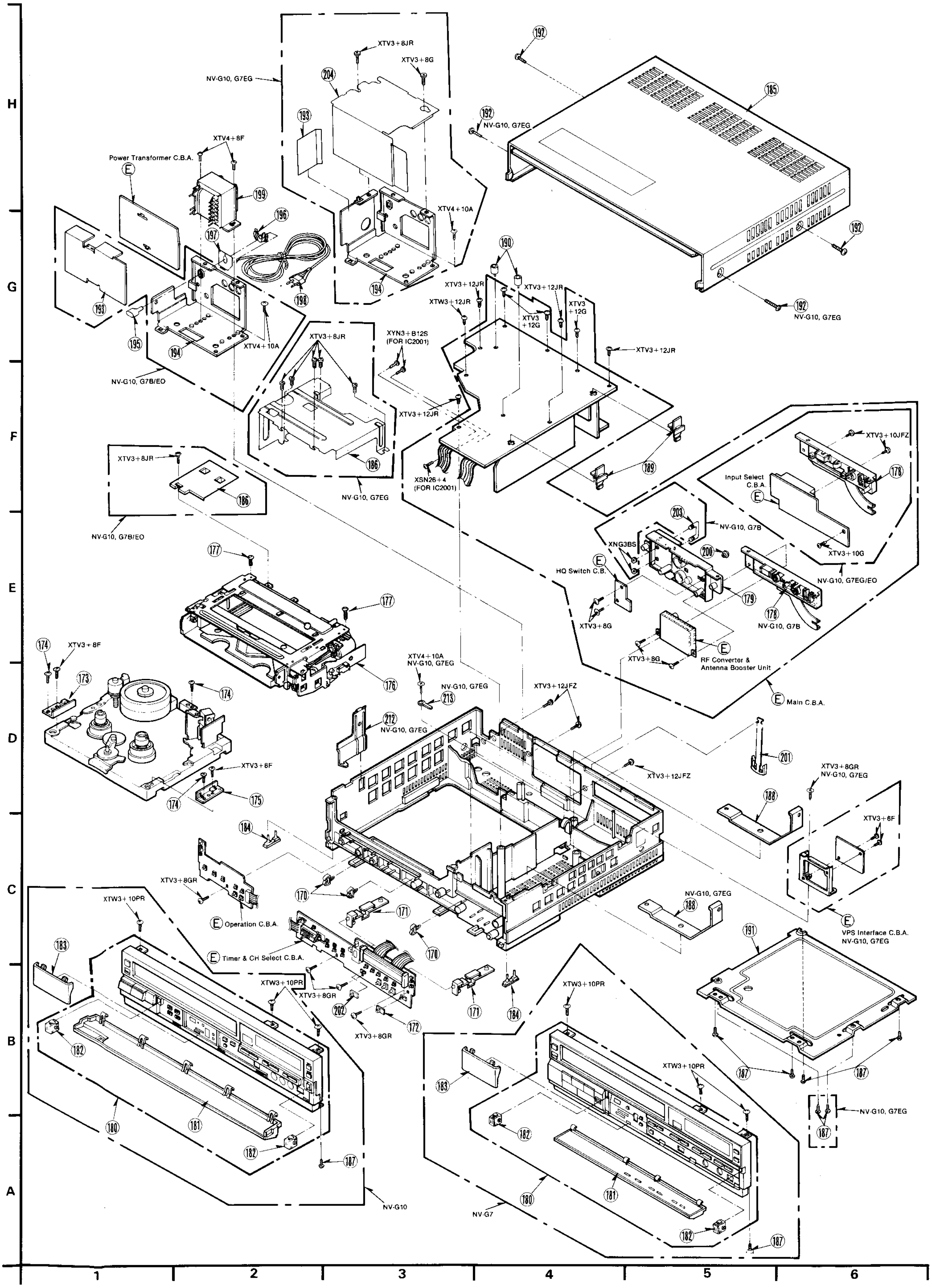
❸ CHASSIS PARTS SECTION


XTV3+8F
(119)
(120)
XTV3+8F
(121)
H
G
(117)
(94)
(126)
(118)
F
XTV3+8F
XTV3+8F
(112)
(89)
XWGV
3D6G
(90)
(93)
(107)
(95)
XWGV3D6G
(122)
XUEV4VW
XWGV3D6G
XUEV3VW
(98)
(87)
E
XTV3
+8FFZ
XTV3
+8FFZ
XWGV
3D6G
XUEV3VW
XUEV4VW
(103)
(96)
(104)
(88)
(91)
(111)
(97)
(109)
(116)
(57)
(99)
(123)
XUEV
3VW
(127)
(87)
D
(128)
(100)
(101)
XUEV4VW
(57)
(57)
(92)
XTV3+8F
(124)
(110)
(125)
(57)
XTV3+8F
XTV3+8F
(102)
C
XTV3+8F
(57)
(108)
XYE3+BF10FNK
(105)
(105)
B
XUEV4VW
(105)
(106)
(105)
(113)
(115)
A
XWGV4D11G
XUEV4VW
XWGV4D11G
XUEV4VW
1
2
3
4
5
6

❹ CASSETTE UP MECHANISM SECTION

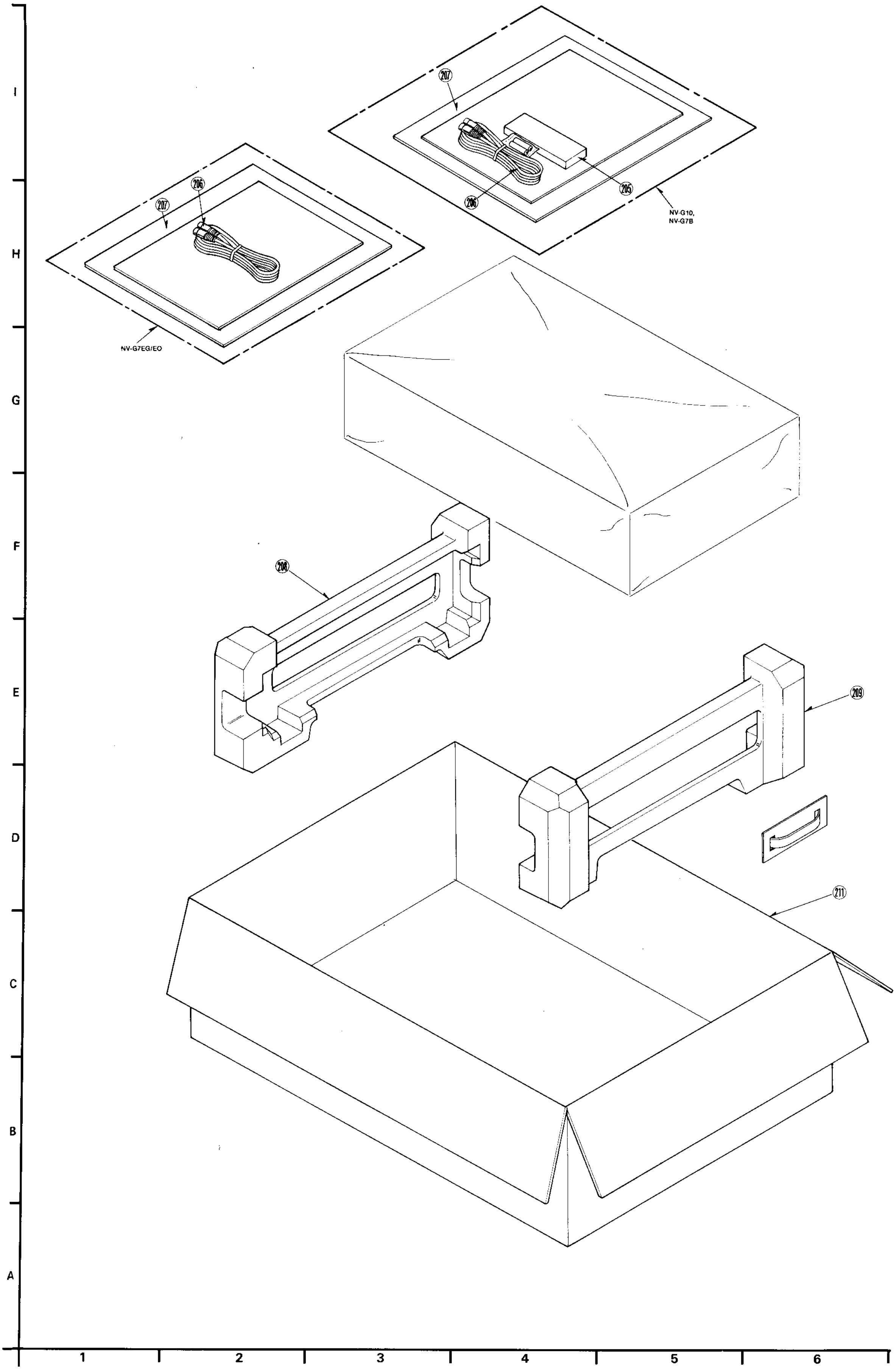

H
G
F
E
D
C
B
A
1
2
3
4
5
6
XTB26+8G
XTB26+8G
XTB26+8G
XTB26+8G
165
158
161
E
Supply Photo Tr C.B.
147
169
XYC26+BG10
157
131
162
129
167
164
139
130
132
136
133
137
146
164
138
XTN26+6GFZ
168
134
XTN26+6GFZ
150
159
155
135
148
176
142
157
147
151
152
141
E
Front Loading C.B.
57
163
156
140
143
XYC26+BG10
XYC26+BG10
XYN2+F10
160

❺ CASING PARTS SECTION

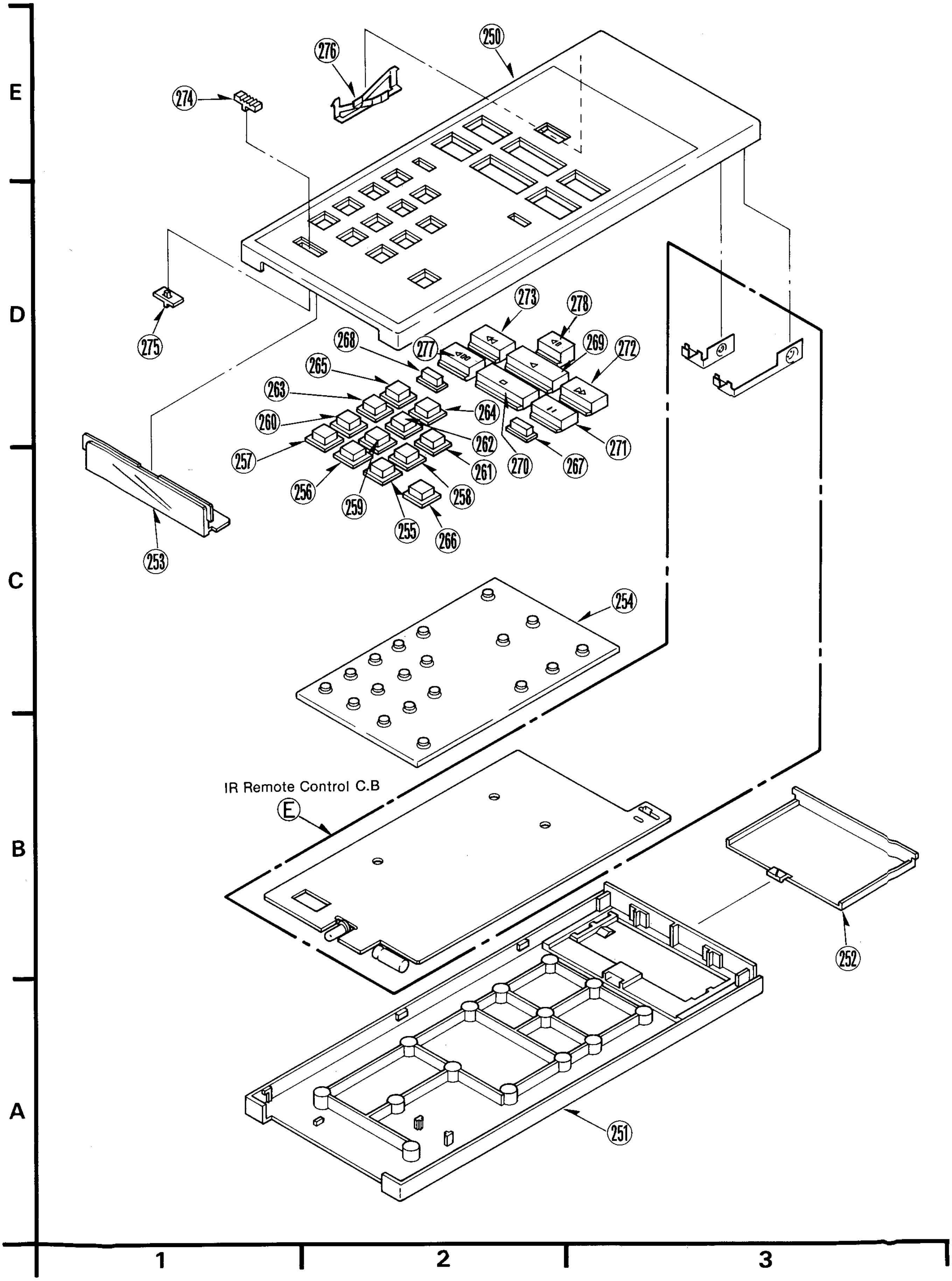


H
G
F
E
D
C
B
A
1
2
3
4
5
6
(192)
(185)
(192)
NV-G10, G7EG
(192)
(192)
NV-G10, G7EG
XTV3+8JR
XTV3+8G
NV-G10, G7EG
(204)
(193)
XTV4+10A
(194)
XTV4+8F
Power Transformer C.B.A.
Ⓔ
(199)
(196)
(197)
(198)
(193)
(195)
(194)
XTV4+10A
NV-G10, G7B/EO
XTV3+8JR
XYN3+B12S
(FOR IC2001)
(186)
NV-G10, G7EG
(190)
XTV3+12JR
XTW3+12JR
XTV3+12JR
XTV3
+12G
XTV3
+12G
XTV3+12JR
XTV3+12JR
XSN26+4
(FOR IC2001)
(189)
XTV3+8JR
(186)
NV-G10, G7B/EO
XTV3+10JFZ
Input Select
C.B.A.
Ⓔ
(178)
XTV3+10G
NV-G10, G7EG/EO
(203)
NV-G10, G7B
XNG3BS
Ⓔ
HQ Switch C.B.
(200)
XTV3+8G
(179)
(178)
NV-G10, G7B
XTV3+8G
Ⓔ
RF Converter &
Antenna Booster Unit
Ⓔ Main C.B.A.
(177)
(177)
(176)
(174)
XTV3+8F
(173)
(174)
XTV3+8F
(174)
(175)
XTV4+10A
NV-G10, G7EG
NV-G10, G7EG
(213)
XTV3+12JFZ
(212)
NV-G10, G7EG
XTV3+12JFZ
(201)
XTV3+8GR
NV-G10, G7EG
(188)
XTV3+8F
(184)
XTV3+8GR
(170)
Ⓔ Operation C.B.A.
(171)
(170)
Ⓔ Timer & CH Select C.B.A.
NV-G10, G7EG
(188)
Ⓔ
VPS Interface C.B.A.
NV-G10, G7EG
(191)
XTW3+10PR
(183)
XTW3+10PR
XTV3+8GR
(202)
(172)
XTV3+8GR
(171)
(184)
(182)
(180)
(181)
(182)
(187)
NV-G10
XTW3+10PR
(183)
XTW3+10PR
(182)
(180)
(181)
NV-G7
(182)
(187)
(187)
(187)
(187)
NV-G10, G7EG

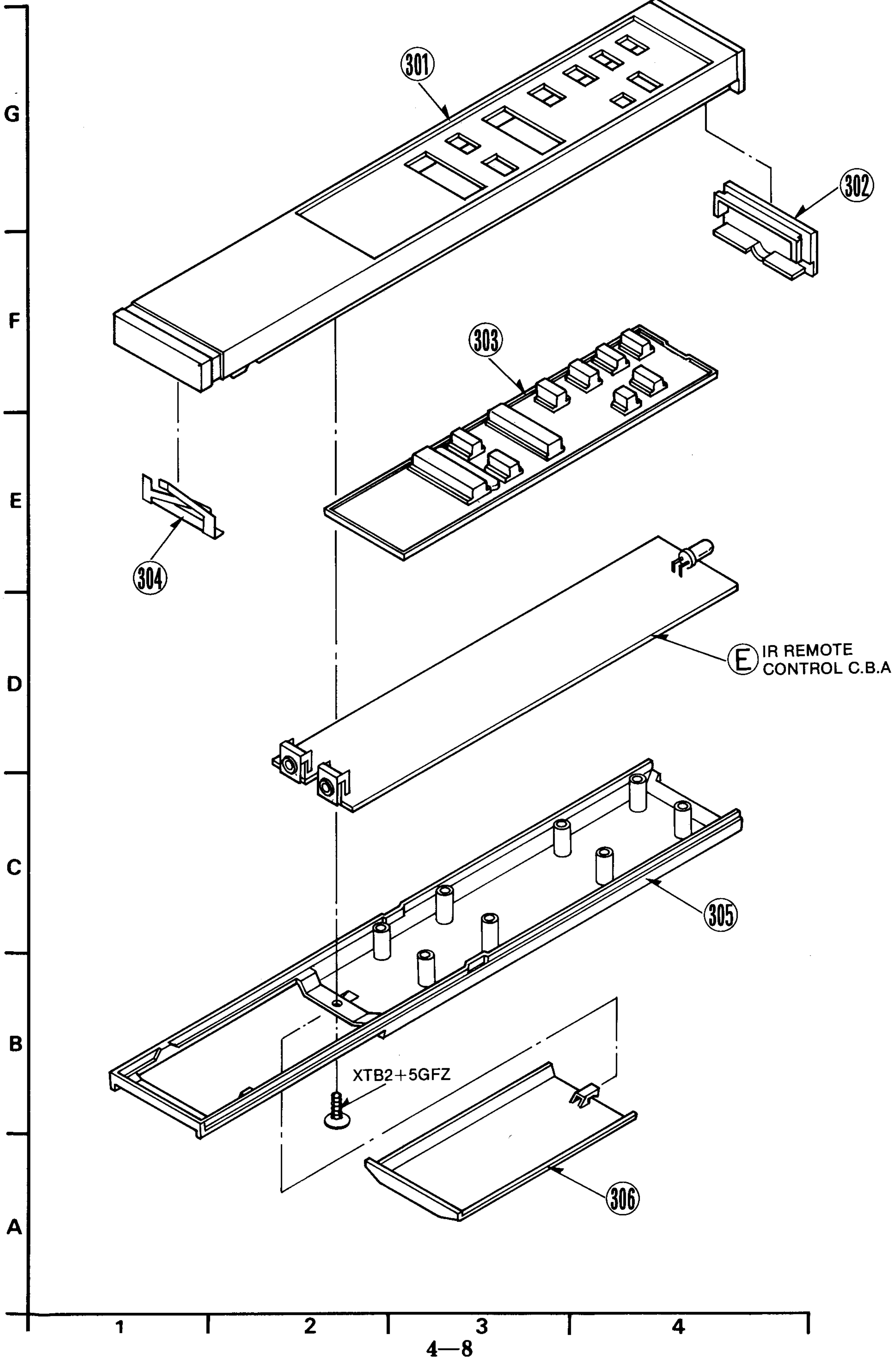
❻ PACKING PARTS SECTION


I
H
G
F
E
D
C
B
A
207
205
206
NV-G10,
NV-G7B
206
207
NV-G7EG/EO
208
209
211
1
2
3
4
5
6

❼ IR REMOTE CONTROL UNIT (NV-G10)


E
D
C
B
A
1
2
3
250
274
276
275
268
265
263
260
257
256
259
255
266
258
261
262
264
270
267
271
273
278
277
269
272
253
254
IR Remote Control C.B
E
252
251

❽ IR REMOTE CONTROL UNIT (NV-G7B)



301
302
303
304
E IR REMOTE CONTROL C.B.A
305
XTB2+5GFZ
306
G
F
E
D
C
B
A
1
2
3
4

ORDER NO. VRD8601103A
(Date of issue: FEB. 1986)

PARTS LIST

MODEL NO :

1. NV-

Mechanical Replacement Parts List

* This parts list is detachable from the manual.

Note: 1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VEG0352	DD CYLINDER UNIT	1	NV-G10EG/EO/B <!>
1(1)		VEG0397	DD CYLINDER UNIT	1	NV-G7EG/EO/B <!>
2(1)		VEH0287	UPPER CYLINDER UNIT	1	NV-G10EG/EO/B
2(1)		VEH0296	UPPER CYLINDER UNIT	1	NV-G7EG/EO/B
3(1)		VJR0082	RT TERMINAL	1	
4(1)		VMC0049	CYLINDER HEATER PRESSURE	1	
			SPRING		
5(1)		VBS0030	FE HEAD	1	
6(1)		VML1761	FE LEVER	1	
7(1)		VMB1459	FE LEVER SPRING	1	
8(1)		VMD0797	POST STOPPER	2	
9(1)		VXP0302A	ROLLER POST UNIT	2	
10(1)		VXA2438	INCLIND BASE (S) UNIT	1	
11(1)		VXA2439	INCLIND BASE (T) UNIT	1	
12(1)		VHD0133	SCREW	2	
13(1)		VXA2446	LOADING BASE (1) UNIT	1	
14(1)		VHD0045	NYLON NUT	1	
15(1)		VDP0908	LIMITER ROLLER	1	
16(1)		VMX0541	COLLAR	1	
17(1)		VMX0456	LOWER LIMITER	1	
18(1)		VMX0663	LIMITER STAND	1	
19(1)		VMB0754	P1 SPRING	1	
20(1)		VHD0147	SCREW	4	
21(1)		VMA6764	POSITION PLATE	1	
22(1)		VMA6759	SHAFT HOLDER STOPPER (A)	1	
23(1)		VXL0753	LOADING ARM (L) UNIT	1	
24(1)		VXL1152	LOADING ARM (R) UNIT	1	
25(1)		VMB0669	LOADING SPRING	2	
26(1)		VXP0520	LOADING GEAR UNIT	2	
27(1)		VXA1966	INCLIND ADJUSTMENT PLATE	1	
28(1)		VHD0054	ADJUSTMENT SCREW	1	
29(1)		VMB1251	ADJUSTMENT SPRING	1	
30(1)		VBR0091	A/C HEAD	1	
31(1)		VHD0089B	AZIMUTH ADJUSTMENT SCREW	1	
32(1)		VHN0038	M5 NYLON NUT	1	
33(1)		VXA2160	HEAD BASE UNIT	1	
34(1)		VMB1189	A/C HEIGHT SPRING	1	
35(1,2)		VHN0023	M3 NYLON NUT	2	
36(1)		VMX0647	POST SLEEVE	1	
37(1)		VMB1235	P4 POST SPRING	1	
38(1)		VMA6507	CHASSIS BRACKET	1	
39(1)		VMC0117	EARTH SPRING	1	
40(1)		VMA6819	HA ANGLE (R)	1	
41(1)		VHN0050	X ADJUSTMENT NUT	1	
42(1)		VMD0646	WIRE HOLDER	1	
43(1)		GL450	PHOTO DIODE	1	OR LN59
44(1)		VMD0644	LED HOLDER	1	
45(1)		VMX0750	SPACER	1	
46(1)		VMA6717	HA ANGLE (L)	1	OR VMA6508
47(1)		VHD0268	SCREW	2	
48(2)		VXR0136	TAKE-UP REEL TABLE UNIT	1	
49(2)		VML1610	SOFT BRAKE RELEASE LEVER	1	
50(2)		VMB1290	SOFT BRAKE SPRING (A)	1	
51(2)		VXZ0189	T SIDE MAIN BRAKE UNIT	1	
52(2)		VML1754	P5 PULL OUT LEVER	1	
53(2)		VXL1371	PRESSURE ROLLER LEVER	1	
			UNIT		
54(2)		VMB1001	PIN PRESSURE SPRING	1	
55(2)		VXL1244	P5 ARM UNIT	1	
56(2)		VMB1307	P5 SPRING	1	
57(2,3,4)		VMX0653	CUT WASHER	13	
58(2)		VMB1198	S SOFT BRAKE SPRING	1	
59(2)		VML1757	S SOFT BRAKE ARM	1	
60(2)		VXZ0185	CAPSTAN BRAKE (A) UNIT	1	
61(2)		VMB1292	CAPSTAN BRAKE ARM	1	
			SPRING (1)		
62(2)		VDG0189	INTERMEDIATE GEAR (A)	1	
63(2)		VXP0600	CENTRE CLUTCH UNIT	1	
64(2)		VXP0521	IDLER ARM UNIT	1	
65(2)		VXA2153	FF LEVER BASE UNIT	1	
66(2)		VES0262	SAFETY SWITCH UNIT	1	
67(2)		VEK2604	DEW SENSOR UNIT	1	
68(2)		VJF0004	WIRE SADDLE	1	
69(2)		VXA2442	DEW ANGLE (1) UNIT	1	
70(2)		VDG0188	INTERMEDIATE GEAR (B)	1	
71(2)		VXP0599	CLUTCH GEAR UNIT	1	
72(2)		VMB1288	INTERMEDIATE GEAR LIFT	1	
			SPRING		
73(2)		VDP0985	CLUTCH PULLEY	1	
74(2)		VXL1230	IDLER STOPPER UNIT	1	
75(2)		VMB1293	IDLER STOPPER SPRING	1	
76(2)		VXL1157	TENSION ARM (1) UNIT	1	
77(2)		VMB1458	TENSION SPRING	1	
78(2)		VXZ0165	TENSION BAND UNIT	1	
79(2)		VXR0118	SUPPLY REEL TABLE UNIT	1	
80(2)		VXZ0187	S SIDE MAIN BRAKE UNIT	1	
81(2)		VMB1289	MAIN BRAKE SPRING	1	
82(2)		VMB1291	SOFT BRAKE SPRING (B)	1	
83(2)		VXZ0191	T SOFT BRAKE (1) UNIT	1	
84(2)		VMX0743	STOPPER RING	1	
85(2)		VXA2464	INTERMEDIATE ANGLE (1)	1	
			UNIT		
86(2)		VHN0023	M3 NYLON NUT	1	
87(2,3)		VHD0149	SCREW	4	
88(3)		VDG0200	CAM GEAR	1	
89(3)		VDG0278	DRIVE GEAR (2)	1	
90(3)		VDG0275	INTERMEDIATE PULLEY GEAR	1	
91(3)		VDV0158	LOADING BELT	1	
92(3)		VSS0135	MODE SELECT SWITCH	1	
93(3)		VML1618	SUB CLUTCH RELEASE ARM	1	
94(3)		VXP0695	CAPSTAN ROTOR UNIT	1	
95(3)		VEK2634	CAPSTAN STATOR UNIT	1	<!>
96(3)		VXP0597	CAPSTAN PULLEY UNIT	1	
97(3)		VDV0149	CAPSTAN BELT	1	
98(3)		VMB1296	SUB LEVER SPRING	1	
99(3)		VXL1237	SUB CLUTCH ARM (1) UNIT	1	
100(3)		VMA6504	THRUST SUPPORT PLATE	1	
101(3)		VXP0601	SUB CLUTCH UNIT	1	
102(3)		VMX0742	THRUST SCREW	1	
103(3)		VEH0275	FG HEAD UNIT	1	
104(3)		VDG0145	INTERMEDIATE GEAR	1	
105(3)		VMX0122	SLIDE WASHER	6	
106(3)		VXL1373	MAIN LEVER UNIT	1	
107(3)		VXS0059	EARTH PLATE UNIT	1	
108(3)		VXL1377	SECTOR GEAR UNIT	1	
109(3)		VMX0967	CUT WASHER	1	
110(3)		VMB1295	SELECT ARM SPRING	1	
111(3)		VXA2469	SWITCH BASE UNIT	1	
112(3)		VHD0267	SCREW	2	
113(3)		VXL1376	KICK ARM UNIT	1	
115(3)		VXL1375	SUB LEVER (1) UNIT	1	
116(3)		VMB1294	SUB CLUTCH ARM SPRING	1	
117(3)		VEM0242	LOADING MOTOR	1	<!>
118(3)		VMA6765	LOADING MOTOR BRACKET	1	
119(3)		VMX0251	OIL SEAL	1	
120(3)		VMD0104	OIL POOL	1	
121(3)		VXD0092	HOUSING UNIT	1	
122(3)		VDG0146	INTERMEDIATE GEAR	1	
123(3)		VDG0178	KICK GEAR	1	
124(3)		VXA2444	SUB CLUTCH BASE (1) UNIT	1	
125(3)		VML1763	SELECT ARM (A)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
126(3)		VMX0265	THRUST WASHER	1	
127(3)		VML1616	SELECT ARM (B)	1	
128(3)		VML1624	SELECT PRESSURE LEVER	1	
129(3)		VDG0274	SHAFT GEAR (L)	1	
130(3)		VXA2432	HOLDER GUIDE (L)(1) UNIT	1	
131(3)		VMD0801	SIDE PLATE (L)	1	
132(4)		VMB1456	SAFETY LEVER SPRING	1	
133(4)		VXA2452	HOLDER GUIDE (R)(1) UNIT	1	
134(4)		VMA6767	CASSETTE GUIDE	1	
135(4)		VSC1577	SHIELD BRACKET (R)	1	
136(4)		VMM0152	SAFETY LEVER	1	
137(4)		VML1585	RELEASE LEVER	1	
138(4)		VMB1259	RELEASE LEVER SPRING	1	
139(4)		VXL1246	PRESSURE LEVER (L) UNIT	1	
140(4)		VXA2169	SLIDER (R)(1) UNIT	1	
141(4)		VMA6760	SWITCH BRACKET	1	
142(4)		VXA2424	SIDE PLATE (R)(1) UNIT	1	
143(4)		VXP0692	MAIN SHAFT UNIT	1	
146(4)		VXL1247	PRESSURE LEVER (R) UNIT	1	
147(4)		VMD0645	PHOTO HOLDER	2	
148(4)		VXP0693	WORM SHAFT UNIT	1	
150(4)		VKF0487	BLINDER PANEL	1	(BLACK)
150(4)		VKF0405	BLINDER PANEL	1	(SILVER)
151(4)		VML1756	WIPER ARM (R)	1	
152(4)		VMB1300	WIPER SPRING (R)	1	
155(4)		VEM0243	FRONT LOADING MOTOR	1	<!>
156(4)		VXP0691	WORM WHEEL UNIT	1	
157(4)		PN150NV	PHOTO Tr.	2	
158(4)		VML1625	FRONT OPENER LEVER	1	
159(4)		VMB1258	BLINDER SPRING	1	
160(4)		VSH0028	SKELTON SWITCH	2	
161(4)		VSC1578	SHIELD BRACKET (L)	1	
162(4)		VML1620	WIPER ARM (L)	1	
163(4)		VXL1238	CASSETTE OPENER UNIT	1	
164(4)		VMB1257	PRESSURE LEVER SPRING	2	
165(4)		VMA6766	TOP PLATE	1	
167(4)		VXA2181	HOLDER ANGLE UNIT	1	
168(4)		VMA6761	CASSETTE HOLDER	1	
169(4)		VMB1301	WIPER SPRING (L)	1	
170(5)		VJF0285	CLAMPER	3	
171(5)		VKC0246	HINGE	2	
172(5)		VGU2725	TIMER REC KNOB	1	
173(5)		VMA6465	MOUNT PLATE (L)	1	
174(5)		VHD0168	SCREW	3	
175(5)		VMA6466	MOUNT PLATE (R)	1	
176(4,5)		VXA2562	CASSETTE UP UNIT	1	NV-G10EG,NV-G7EG
176(4,5)		VXA2450	CASSETTE UP UNIT	1	NV-G10EO/B,NV-G7EO/B
177(5)		VHD0268	SCREW	2	
178(5)		VEJ0491	REAR JACK BOARD	1	NV-G10EG,NV-G7EG
178(5)		VEJ0466	REAR JACK BOARD	1	NV-G10B,NV-G7B
178(5)		VEJ0467	REAR JACK BOARD	1	NV-G10EO,NV-G7EO
179(5)		VJH0364	RF & ANTENNA BOARD	1	NV-G10EG,NV-G7EG
179(5)		VJH0363	RF & ANTENNA BOARD	1	NV-G10EO/B,NV-G7EO/B
180(5)		VYP1606	FRONT PANEL UNIT	1	NV-G10EG (SILVER)
180(5)		VYP1607	FRONT PANEL UNIT	1	NV-G10EG (BLACK)
180(5)		VYP1574	FRONT PANEL UNIT	1	NV-G10B (SILVER)
180(5)		VYP1575	FRONT PANEL UNIT	1	NV-G10B (BLACK)
180(5)		VYP1576	FRONT PANEL UNIT	1	NV-G10EO (SILVER)
180(5)		VYP1577	FRONT PANEL UNIT	1	NV-G10EO (BLACK)
180(5)		VYP1564	FRONT PANEL UNIT	1	NV-G7EG (SILVER)
180(5)		VYP1565	FRONT PANEL UNIT	1	NV-G7EG (BLACK)
180(5)		VYP1568	FRONT PANEL UNIT	1	NV-G7B (SILVER)
180(5)		VYP1569	FRONT PANEL UNIT	1	NV-G7B (BLACK)
180(5)		VYP1566	FRONT PANEL UNIT	1	NV-G7EO (SILVER)
180(5)		VYP1567	FRONT PANEL UNIT	1	NV-G7EO (BLACK)
181(5)		VYF0801	FRONT DOOR UNIT	1	NV-G10EG/EO/B (SILVER)
181(5)		VYF0802	FRONT DOOR UNIT	1	NV-G10EG/EO/B (BLACK)
181(5)		VYF0795	FRONT DOOR UNIT	1	NV-G7EG/EO/B (SILVER)
181(5)		VYF0796	FRONT DOOR UNIT	1	NV-G7EG/EO/B (BLACK)
182(5)		VGQ0963	DOOR MAGNET	2	
183(5)		VKF0650	PRESET COVER	1	NV-G10EG/EO/B
183(5)		VKF0694	PRESET COVER	1	NV-G7EG/EO/B
184(5)		VKA0026	RUBBER FOOT	2	
185(5)		VYP1578	TOP PANEL UNIT	1	NV-G10EO/B (SILVER) NV-G7EO/B (SILVER)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
185(5)		VYP1580	TOP PANEL UNIT	1	NV-G10EO/B (BLACK) NV-G7EO/B (BLACK)
185(5)		VYP1608	TOP PANEL UNIT	1	NV-G10EG (SILVER) NV-G7EG (SILVER)
185(5)		VYP1609	TOP PANEL UNIT	1	NV-G10EG (BLACK) NV-G7EG (BLACK)
186(5)		VSC1541	BCI SHIELD CASE	1	NV-G10EG,NV-G7EG
186(5)		VSC1628	BCI SHIELD CASE	1	NV-G10EO/B NV-G7EO/B
187(5)		VHD0059	SCREW	7	NV-G10EG,NV-G7EG
187(5)		VHD0059	SCREW	5	NV-G10EO/B NV-G7EO/B
188(5)		VMP0817	TOP CASE SUPPORT ANGLE	1	NV-G10EO/B NV-G7EO/B
189(5)		VKC0247	HINGE	2	
190(5)		VMX0549	SPACER	2	
191(5)		VYP1604	BOTTOM PLATE UNIT	1	NV-G10EG,NV-G7EG
191(5)		VKU0229	BOTTOM PLATE	1	NV-G10EO/B NV-G7EO/B
192(5)		VHD0252	SCREW	4	NV-G10EG (SILVER) NV-G7EG (SILVER)
192(5)		VHD0253	SCREW	4	NV-G10EG (BLACK) NV-G7EG (BLAC
192(5)		VHD0252	SCREW	2	NV-G10EO/B (SILVER) NV-G7EO/B (SILVER)
192(5)		VHD0253	SCREW	2	NV-G10EO/B (BLACK) NV-G7EO/B (BLACK)
193(5)		VMZ0699	BARRIER	1	NV-G10EO/B NV-G7EO/B
193(5)		VMZ0788	BARRIER	1	NV-G10EG,NV-G7EG
194(5)		VMP0857	POWER TRANSFORMER ANGLE (R)	1	NV-G10EO/B NV-G7EO/B
194(5)		VMP0859	POWER TRANSFORMER ANGLE (R)	1	NV-G10EG,NV-G7EG
195(5)		VMX0237	AC CORD COVER	1	<!>
196(5)		VJF0107	BUSHING	1	<!>
197(5)		VGH0789	POWER NAME PLATE	1	
198(5)		VJA0112	AC CORD	1	NV-G10B,NV-G7B
198(5)		VJA0111	AC CORD	1	NV-G10EO,NV-G7EO
198(5)		VJA0326	AC CORD	1	NV-G10EG,NV-G7EG
199(5)		VTP0187A	POWER TRANSFORMER	1	NV-G10EG,NV-G7EG <!
199(5)		VTP0172	POWER TRANSFORMER	1	NV-G10B,NV-G7B <!>
199(5)		VTP0178A	POWER TRANSFORMER	1	NV-G10EO,NV-G7EO <!
200(5)		VMG0272	RF CONVERTER BUSHING	1	
201(5)		VJF0349	AC CORD BAND	1	
202(5)		VGU2707	INPUT SELECT KNOB	1	NV-G7EG/EO
202(5)		VGU2651	INPUT SELECT KNOB	1	NV-G10EG/EO
203(5)		VKH0105	HOOK	1	NV-G10B,NV-G7B
204(5)		VSC1587	POWER SHIELD PLATE	1	NV-G10EG,NV-G7EG
205(6)		VEQ0427	WIRELESS REMOTE CONTROLLER	1	NV-G10EG/EO/B
205(5)		VEQ0449	WIRELESS REMOTE CONTROLLER	1	NV-G7B
206(6)		VJA0217	DIN-RF CABLE	1	
207(6)		VQF1703	FAN BAG KIT	1	NV-G10EG
207(6)		VQF1702	FAN BAG KIT	1	NV-G10B
207(6)		VQF1704	FAN BAG KIT	1	NV-G10EO
207(6)		VQF1696	FAN BAG KIT	1	NV-G7EG
207(6)		VQF1698	FAN BAG KIT	1	NV-G7B
207(6)		VQF1697	FAN BAG KIT	1	NV-G7EO
208(6)		VPN1405	CUSHION (L)	1	NV-G10EG/EO/B
209(6)		VPN1404	CUSHION (R)	1	NV-G10EG/EO/B
209(6)		VPN1427	CUSHION (L)	1	NV-G7EG/EO/B
209(6)		VPN1426	CUSHION (R)	1	NV-G7EG/EO/B
211(6)		VPG2627	PACKING CASE	1	NV-G10EG (SILVER)
211(6)		VPG2628	PACKING CASE	1	NV-G10EG (BLACK)
211(6)		VPG2625	PACKING CASE	1	NV-G10B (SILVER)
211(6)		VPG2626	PACKING CASE	1	NV-G10B (BLACK)
211(6)		VPG2629	PACKING CASE	1	NV-G10EO (SILVER)
211(6)		VPG2630	PACKING CASE	1	NV-G10EO (BLACK)
211(6)		VPG2616	PACKING CASE	1	NV-G7EG (SILVER)
211(6)		VPG2617	PACKING CASE	1	NV-G7EG (BLACK)
211(6)		VPG2620	PACKING CASE	1	NV-G7B (SILVER)
211(6)		VPG2621	PACKING CASE	1	NV-G7B (BLACK)
211(6)		VPG2618	PACKING CASE	1	NV-G7EO (SILVER)
211(6)		VPG2619	PACKING CASE	1	NV-G7EO (BLACK)
212(5)		VMP0891	TOP CASE SUPPORT ANGLE (L)	1	NV-G10EG,NV-G7EG
213(5)		VJR4	CLAMPER	1	NV-G10EG,NV-G7EG

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
250(7)		VYK1216	TOP CASE UNIT	1	NV-G10EG/EO/B
251(7)		VYK1217	BOTTOM CASE UNIT	1	NV-G10EG/EO/B
252(7)		VKF0609	BATTERY COVER	1	NV-G10EG/EO/B
253(7)		VKW0602	SMOKE BOARD	1	NV-G10EG/EO/B
254(7)		VSP0181	RUBBER CONTACT	1	NV-G10EG/EO/B
255(7)		VGU2566	BUTTON (1)	1	NV-G10EG/EO/B
256(7)		VGU2567	BUTTON (2)	1	NV-G10EG/EO/B
257(7)		VGU2568	BUTTON (3)	1	NV-G10EG/EO/B
258(7)		VGU2569	BUTTON (4)	1	NV-G10EG/EO/B
259(7)		VGU2570	BUTTON (5)	1	NV-G10EG/EO/B
260(7)		VGU2571	BUTTON (6)	1	NV-G10EG/EO/B
261(7)		VGU2572	BUTTON (7)	1	NV-G10EG/EO/B
262(7)		VGU2573	BUTTON (8)	1	NV-G10EG/EO/B
263(7)		VGU2574	BUTTON (9)	1	NV-G10EG/EO/B
264(7)		VGU2575	BUTTON (10/0)	1	NV-G10EG/EO/B
265(7)		VGU2576	BUTTON (./..)	1	NV-G10EG/EO/B
266(7)		VGU2554	BUTTON (VTR)	1	NV-G10EG/EO/B
267(7)		VGU2555	REC BUTTON (RED)	1	NV-G10EG/EO/B
268(7)		VGU2556	REC BUTTON	1	NV-G10EG/EO/B
269(7)		VGU2557	BUTTON (PLAY)	1	NV-G10EG/EO/B
270(7)		VGU2558	BUTTON (STOP)	1	NV-G10EG/EO/B
271(7)		VGU2559	BUTTON (STILL)	1	NV-G10EG/EO/B
272(7)		VGU2561	BUTTON (REW)	1	NV-G10EG/EO/B
273(7)		VGU2562	BUTTON (FF)	1	NV-G10EG/EO/B
274(7)		VGU1213	POWER BUTTON	1	NV-G10EG/EO/B
275(7)		VGQ0601	BUTTON HOLDER	1	NV-G10EG/EO/B
276(7)		VJR0170	ELECTRODE (COMMON)	1	NV-G10EG/EO/B
277(7)		VGU2560	BUTTON (STILL ADV)	1	NV-G10EG/EO/B
278(7)		VGU2905	BUTTON (SLOW)	1	NV-G10EG/EO/B
301(8)		VYK1267	TOP CASE UNIT	1	NV-G7B
302(8)		VKW0654	TOP SMOKE PANEL	1	NV-G7B
303(8)		VSP0218	RUBBER SWITCH	1	NV-G7B
304(8)		VJR0054	ELECTRODE (COMMON)	1	NV-G7B
305(8)		VYK1268	BOTTOM CASE UNIT	1	NV-G7B
306(8)		VKF0705	BATTERY COVER	1	NV-G7B
			JIG		
		VFJ8125H3F	VHS-ALIGNMENT TAPE	1	
		VFK0144	RETAINING RING REMOVER(3mm)	1	
		VFK0191	POST ADJUSTMENT PLATE	1	
		VFK0190	REEL TABLE HEIGHT JIG	1	
		VFK0189	H-POSITION ADJ-FIXTURE	1	
		VFK0137	POST ADJUSTMENT SCREWDRIVER	1	
		VFK0157	FINE ADJUSTMENT SCREWDRIVER	1	
		VFK0133	DIAL TORQUE GAUGE	1	
		VFK0134	ADAPTOR FOR VFK0133	1	
		VFK66	FAN TYPE TENSION GAUGE	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0283	SERVICE ALIGNMENT TOOL KIT	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

Electrical Replacement Parts List

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4.The P.C.Board units marked width'▮'show below the main assembled parts.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP06333F	MAIN C.B.A.	1	INCLUDING THE SERVO
			(POWER SUPPLY,SERVO,AUDIO,		PACK C.B.A.
			SYSTEM CONTROL,LUMINANCE &		(VEP02225B),
			CHROMINANCE,TUNER,		LUMINANCE &
			TV DEMODULATOR)		CHROMINANCE PACK
					C.B.A.(VEP03316A),
					AUDIO PACK C.B.A.
					(VEP04138),
					TV DEMODULATOR PACK
					C.B.A.(VEP07312B),
					REC AMP PACK C.B.A.
					(VEP03318A).
					NV-G10EG <!>
		VEP06333G	MAIN C.B.A.	1	INCLUDING THE SERVO
			(POWER SUPPLY,SERVO,AUDIO,		PACK C.B.A.
			SYSTEM CONTROL,LUMINANCE &		(VEP02225B),
			CHROMINANCE,TUNER,		LUMINANCE &
			TV DEMODULATOR)		CHROMINANCE PACK
					C.B.A.(VEP03316B),
					AUDIO PACK C.B.A.
					(VEP04138),
					TV DEMODULATOR PACK
					C.B.A.(VEP07312A),
					REC AMP PACK C.B.A.
					(VEP03318A).
					NV-G10EO <!>
		VEP06333H	MAIN C.B.A.	1	INCLUDING THE SERVO
			(POWER SUPPLY,SERVO,AUDIO,		PACK C.B.A.
			SYSTEM CONTROL,LUMINANCE &		(VEP02225B),
			CHROMINANCE,TUNER,		LUMINANCE &
			TV DEMODULATOR)		CHROMINANCE PACK
					C.B.A.(VEP03316B),
					AUDIO PACK C.B.A.
					(VEP04138),
					TV DEMODULATOR PACK
					C.B.A.(VEP07302D),
					REC AMP PACK C.B.A.
					(VEP03318A).
					NV-G10B <!>
		VEP06333P	MAIN C.B.A.	1	INCLUDING THE SERVO
			(POWER SUPPLY,SERVO,AUDIO,		PACK C.B.A.
			SYSTEM CONTROL,LUMINANCE &		(VEP02234A),
			CHROMINANCE,TUNER,		LUMINANCE &
			TV DEMODULATOR)		CHROMINANCE PACK
					C.B.A.(VEP03316A),
					AUDIO PACK C.B.A.
					(VEP04138),
					TV DEMODULATOR PACK
					C.B.A.(VEP07312B),
					REC AMP PACK C.B.A.
					(VEP03318A).
					NV-G7EG <!>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP06333N	MAIN C.B.A.	1	INCLUDING THE SERVO
			(POWER SUPPLY,SERVO,AUDIO,		PACK C.B.A.
			SYSTEM CONTROL,LUMINANCE &		(VEP02234A),
			CHROMINANCE,TUNER,		LUMINANCE &
			TV DEMODULATOR)		CHROMINANCE PACK
					C.B.A.(VEP03316B),
					AUDIO PACK C.B.A.
					(VEP04138),
					TV DEMODULATOR PACK
					C.B.A.(VEP07312A),
					REC AMP PACK C.B.A.
					(VEP03318A).
					NV-G7 <!>
		VEP06333L	MAIN C.B.A.	1	INCLUDING THE SERVO
			(POWER SUPPLY,SERVO,AUDIO,		PACK C.B.A.
			SYSTEM CONTROL,LUMINANCE &		(VEP02234A),
			CHROMINANCE,TUNER,		LUMINANCE &
			TV DEMODULATOR)		CHROMINANCE PACK
					C.B.A.(VEP03316B)
					AUDIO PACK C.B.A.
					(VEP04138),
					TV DEMODULATOR PACK
					C.B.A.(VEP07302D),
					REC AMP PACK C.B.A.
					(VEP03318A).
					NV-G7B <!>
		VEP02225B	SERVO PACK C.B.A.	1	NV-G10EG/EO/B
		VEP02234A	SERVO PACK C.B.A.	1	NV-G7EG/EO/B
		VEP03316A	LUMINANCE & CHROMINANCE	1	INCLUDING THE SECAM
			C.B.A.		PACK C.B.A.
					(VEP03294A)
					NV-G10EG,NV-G7EG
		VEP03316B	LUMINANCE & CHROMINANCE	1	NV-G10EO/B
			C.B.A.		NV-G7EO/B
		VEP03294A	SECAM PACK C.B.A.	1	NV-G10EG,NV-G7EG
		VEP04138	AUDIO PACK C.B.A.	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP07312B	TV DEMODULATOR PACK C.B.A.	1	NV-G10EG,NV-G7EG
		VEP07312A	TV DEMODULATOR PACK C.B.A.	1	NV-G10EO,NV-G7EO
		VEP07302D	TV DEMODULATOR PACK C.B.A.	1	NV-G10B,NV-G7B
		VEP03318A	REC AMP C.B.A.	1	
		VEP05082	HEAD AMP PACK C.B.A.	1	NV-G10EG/EO/B
		VEP05064	HEAD AMP PACK C.B.A.	1	NV-G7EG/EO/B
		VEP06334A	OPERATION C.B.A.	1	NV-G10EG/EO/B
		VEP06350A	OPERATION C.B.A.	1	NV-G7EG/EO/B
		VEP07323A	TIMER & CH SELECT C.B.A.	1	INCLUDING THE IR
					RECEIVER C.B.
					(VJB00F01)
					NV-G10EG
		VEP07300D	TIMER & CH SELECT C.B.A.	1	INCLUDING THE IR
					RECEIVER C.B.
					(VJB00F01)
					NV-G10EO
		VEP07300E	TIMER & CH SELECT C.B.A.	1	INCLUDING THE IR
					RECEIVER C.B.
					(VJB00F01)
					NV-G10B
		VEP07323B	TIMER & CH SELECT C.B.A.	1	INCLUDING THE IR
					RECEIVER C.B.
					(VJB00F01)
					NV-G7EG
		VEP07300F	TIMER & CH SELECT C.B.A.	1	INCLUDING THE IR
					RECEIVER C.B.
					(VJB00F01)
					NV-G7EO

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP07300G	TIMER & CH SELECT C.B.A.	1	INCLUDING THE IR
					RECEIVER C.B.
					(VJB00F01)
					NV-G7B
		VEP03293B	INPUT SELECT C.B.A.	1	NV-G10EG,NV-G7EG
		VEP03293A	INPUT SELECT C.B.A.	1	NV-G10EO,NV-G7EO
		VEP07324A	VPS INTERFACE C.B.A.	1	NV-G10EG,NV-G7EG
		VEP03317A	DETAIL SW C.B.A.	1	
		ENC87786	RF CONVERTER & ANTENNA	1	NV-G10EG,NV-G7EG <!
			BOOSTER UNIT		
		ENC87784	RF CONVERTER & ANTENNA	1	NV-G10EO,NV-G7EO <!
			BOOSTER UNIT		
		ENC87782	RF CONVERTER & ANTENNA	1	NV-G10B,NV-G7B <!>
			BOOSTER UNIT		
		VJB00F01	IR RECEIVER C.B.	1	
		VJB00G13	SUPPLY PHOTO C.B.	1	
		VJB00G23	LED C.B.	1	
		VJB00G10	MECHANISM CONNECTION C.B.	1	
		VJB00G15	CYLINDER HEATER C.B.	1	
		VJB00G09	FRONT LOADING C.B.	1	
		VJB00G12	REEL SENSOR C.B.	1	
		VEP01213A	POWER TRANSFORMER C.B.A.	1	NV-G10EG,NV-G7EG <!
		VEP01212A	POWER TRANSFORMER C.B.A.	1	NV-G10B,NV-G7B <!>
		VEP01212B	POWER TRANSFORMER C.B.A.	1	NV-G10EO,NV-G7EO <!
		VEP22034	IR REMOTE CONTROL C.B.A.	1	NV-G10EG/EO/B
		VEP22046A	IR REMOTE CONTROL C.B.A.	1	NV-G7B
		TNV57451F2	TUNER	1	NV-G10EG/EO <!>
					NV-G7EG/EO
		TNV87452F2	TUNER	1	NV-G10B,NV-G7B <!>
T1101		VTP0187A	POWER TRANSFORMER	1	
					NV-G10EG,NV-G7EG <!
T1101		VTP0178A	POWER TRANSFORMER	1	
					NV-G10EO,NV-G7EO <!
T1101		VTP0172	POWER TRANSFORMER	1	NV-G10B,NV-G7B <!>
F1101		XBA2C04TB0A	FUSE 250V 400mA	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
F1102		XBA2C12TB0A	FUSE 250V 1.25A	1	NV-G10E0/B,NV-G7E0/B
					<!>
F1102		XBA2C20TB0A	FUSE 250V 20A	1	NV-G10EG,NV-G7EG <!>
F1103		XBA2C20TB0A	FUSE 250V 20A	1	
		VJF0215	BINDER	1	FOR AC CORD
	[redacted]	VEP06333F	MAIN C.B.A.		INCLUDING THE
	[redacted]	VEP06333G	(POWER SUPPLY,SERVO,AUDIO,		SERVO PACK C.B.A.
	[redacted]	VEP06333H	SYSTEM CONTROL,LUMINANCE &		(VEP02225B,VEP02234A)
	[redacted]	VEP06333L	CHROMINANCE,TUNER,TV		,LUMINANCE &
	[redacted]	VEP06333N	DEMODULATOR)		CHROMINANCE PACK
	[redacted]	VEP06333P			(VEP03316A,VEP03316B)
					AUDIO PACK C.B.A.
					(VEP04138A),TV-
					DEMODULATOR PACK
					C.B.A.(VEP07312A,
			(POWER SUPPLY SECTION)		VEP07312B,VEP07302D),
					REC AMP PACK C.B.A.
					(VEP03318A) <!>
			INTEGRATED CIRCUIT		
IC1001		STK5331		1	
			TRANSISTOR		
Q1001		2SC1384		1	(R)
			DIODES		
D1001		ERA15-01		1	
D1002		ERA15-01		1	
D1003		ERA15-01		1	
D1004		ERA15-01		1	
D1005		ERA15-01		1	
D1006		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R1001		ERG12ANJ182	METAL 1/2W 1.8K	1	
R1002		ERDS2TJ682	6.8K	1	
R1003		ERDS2TJ103	10K	1	
R1004		ERDS2TJ562	5.6K	1	
			CAPACITORS		
C1001		ECEA1EU332	ELECTROLYTIC 25V 3300	1	
C1002		ECEA1VU101	ELECTROLYTIC 35V 100	1	
			CONNECTOR		
P1001		VJP1261	10P	1	
			(SERVO SECTION)		
			INTEGRATED CIRCUIT		
IC2001		AN3821K		1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			COMBINATION PARTS		
			(TRANSISTOR & RESISTOR)		
QR2001		DTC144EA		1	OR UN1213
QR2002		DTA144EA		1	OR UN1113
			DIODE		
D2001		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R2004		EROS2CKG1203	METAL 120K	1	
R2005		ERDS2TJ102	1K	1	
R2006		ERX12SJR82	METAL 1/2W 0.82	1	
R2007		ERDS2TJ224	220K	1	
R2008		ERDS2TJ224	220K	1	
R2209		ERDS2TJ224	220K	1	
R2010		EROS2CKG2201	METAL 2.2K	1	
R2011		EROS2CKG1302	METAL 1.3K	1	
R2012		ERQ12HJ6R8P	FUSE 1/2W 6.8	1	<!>
R2013		ERDS2TJ181	180	1	
R2014		ERDS2TJ473	47K	1	
R2017		ERDS2TJ222	2.2K	1	
R2021		ERDS2TJ561	560	1	
R2022		ERDS2TJ101	100	1	NV-G10EG/E0/B
			VARIABLE RESISTORS		
VR2001		EVN61AA00B54	50K	1	
VR2002		EVN61AA00B15	100K	1	
VR2011		EVN61AA00B15	100K	1	NV-G10EG/E0/B
			CAPACITORS		
C2001		ECEA1VU4R7	ELECTROLYTIC 35V 4.7	1	
C2002		ECEA1VU4R7	ELECTROLYTIC 35V 4.7	1	
C2003		ECEA1VU4R7	ELECTROLYTIC 35V 4.7	1	
C2004		ECQB1H822KH	MYLAR 50V 8200P	1	
C2005		ECQB1H822KH	MYLAR 50V 8200P	1	
C2006		ECQB1H822KH	MYLAR 50V 8200P	1	
C2007		ECQV1H104JZ	MYLAR 50V 0.1	1	
C2008		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C2009		ECEA1HK0R1	ELECTROLYTIC 50V 0.1	1	
C2010		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C2011		ECKF1H103ZF	CERAMIC 50V 0.01	1	
			FUSE		
F2001		VSF0043	THERMAL FUSE	1	<!>
			CONNECTOR		
P2002		VJS1475	13P	1	
			(AUDIO SECTION)		
			RESISTORS		
R4001		ERDS2TJ100	10	1	
R4002		ERDS2TJ333	33K	1	
R4005		ERDS2TJ183	18K	1	
R4006		ERDS2TJ222	2.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			VARIABLE RESISTORS		
VR4001		EVN61AA00B13	1K	1	
VR4002		EVN61AA00B25	200K	1	
			CAPACITORS		
C4001		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C4002		ECKF1H472ZF	CERAMIC 50V 4700P	1	
C4003		ECQB1H333KH	MYLAR 50V 0.033	1	NV-G10B,NV-G7B
C4101		ECKF1H471KB	CERAMIC 50V 470P	1	NV-G10EG/EO
					NV-G7EG/EO
			CONNECTORS		
P4001		VJP1254	3P	1	
P4002		VJP1254	3P	1	
			(SYSTEM CONTROL SECTION)		
			INTEGRATED CIRCUITS		
IC6001		MN15342VQH		1	NV-G10EG/EO/B
IC6001		MN15342VDC		1	NV-G7EG/EO/B
IC6002		AN6914		1	OR uPC393C
IC6003		BA6248		1	OR M54649L
IC6004		MN1280R		1	
			TRANSISTORS		
Q6002		2SD636		1	(Q,R,S) OR 2SC2021M
Q6003		2SB643		1	(Q,R,S)
					NV-G10B,NV-G7B
Q6004		2SD638		1	(S) OR 2SD1458
Q6005		2SB790		1	(Q,R,S)
Q6006		2SB790		1	(Q,R,S)
Q6007		2SD636		1	(Q,R,S) OR 2SC2021M
			COMBINATION PARTS		
			(TRANSISTOR & RESISTOR)		
QR6001		DTC114EA		1	OR UN1211
QR6002		DTC124EA		1	OR UN1212
QR6003		DTA124EA		1	OR UN1112
QR6005		DTC114EA		1	OR UN1211
			DIODES		
D6001		MA165		1	OR 1SS133,1SS119
D6005		MA165		1	OR 1SS133,1SS119
D6007		ERA15-01		1	
D6008		MA165		1	OR 1SS133,1SS119
D6009		MA165		1	OR 1SS133,1SS119
D6011		MA165		1	OR 1SS133,1SS119
D6012		MA4091M		1	NV-G10B,NV-G7B
D6013		MA165		1	NV-G10B,NV-G7B
			RESISTORS		
R6001		ERDS2TJ683	68K	1	
R6002		ERDS2TJ103	10K	1	
R6003		ERDS2TJ184	180K	1	
R6004		ERDS2TJ223	22K	1	
R6005		ERDS2TJ223	22K	1	
R6006		ERDS2TJ223	22K	1	
R6007		ERDS2TJ824	820K	1	
R6008		ERDS2TJ105	1M	1	
R6009		ERDS2TJ122	1.2K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6010		ERDS2TJ181	180	1	
R6011		ERDS2TJ152	1.5K	1	
R6012		ERDS2TJ221	220	1	
R6013		ERDS2TJ223	22K	1	
R6014		ERDS2TJ563	56K	1	
R6015		ERDS2TJ221	220	1	
R6017		ERDS2TJ153	15K	1	
R6018		ERDS2TJ153	15K	1	
R6019		ERDS2TJ562	5.6K	1	
R6020		ERDS2TJ562	5.6K	1	
R6021		ERDS2TJ562	5.6K	1	
R6022		ERDS2TJ103	10K	1	
R6023		ERDS2TJ332	3.3K	1	
R6024		ERDS2TJ391	390	1	
R6025		ERDS2TJ103	10K	1	
R6027		ERDS2TJ101	100	1	
R6028		ERDS2TJ332	3.3K	1	NV-G10B,NV-G7B
R6030		ERDS2TJ681	680	1	
R6031		ERDS2TJ332	3.3K	1	
R6032		ERDS2TJ681	680	1	
R6034		ERD2FCG180	FUSE 18	1	<!>
R6038		ERDS2TJ562	5.6K	1	
R6039		ERDS2TJ332	3.3K	1	
R6041		ERDS2TJ152	1.5K	1	
R6043		ERDS2TJ103	10K	1	
R6044		ERDS2TJ472	4.7K	1	
R6045		ERDS2TJ472	4.7K	1	
R6046		ERDS2TJ562	5.6K	1	
R6049		ERDS2TJ103	10K	1	
R6050		ERDS2TJ562	5.6K	1	NV-G10B,NV-G7B
R6053		ERDS1TJ470	47	1	
R6054		ERDS2TJ101	100	1	
R6055		ERDS2TJ101	100	1	
R6056		ERDS2TJ101	100	1	
R6057		ERDS2TJ101	100	1	
R6058		ERDS2TJ561	560	1	
R6059		ERDS2TJ222	2.2K	1	
R6060		ERDS2TJ222	2.2K	1	
R6061		ERDS2TJ222	2.2K	1	
			CAPACITORS		
C6002		ECEA0JK101	ELECTROLYTIC 6.3V 100	1	
C6003		ECKF1H681KB	CERAMIC 50V 680P	1	
C6004		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C6005		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C6006		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C6007		ECCF1H330JC	CERAMIC 50V 33P	1	
C6008		ECCF1H330JC	CERAMIC 50V 33P	1	
C6009		ECEA1HKN010	ELECTROLYTIC 50V 1	1	
C6010		ECEA1HKN010	ELECTROLYTIC 50V 1	1	
C6011		ECEA1HK2R2	ELECTROLYTIC 50V 2.2	1	
C6013		ECKF1H221KB	CERAMIC 50V 220	1	
C6014		ECEA1HKN2R2	ELECTROLYTIC 50V 2.2	1	
C6015		ECEA50Z2R2	ELECTROLYTIC 50V 2.2	1	
C6016		ECEA50Z3R3	ELECTROLYTIC 50V 3.3	1	
			CRYSTAL OSCILLATORS		
X6001		VSX0082		1	
			CONNECTORS		
P6001		VJS1465	7P	1	
P6002		VJS1444	24P	1	
P6003		VJP1255	4P	1	NV-G10EG/EO/B

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			(LUMINANCE & CHROMINANCE		
			SECTION)		
			TRANSISTORS		
Q3001		2SB641		1	(Q,R,S) OR 2SA937M
Q8001		2SD636		1	(Q,R,S) OR 2SC2021M
			COMBINATION PARTS		
			(TRANSISTOR & RESISTOR)		
QR8001		DTC124EA		1	OR UN1212
			DIODE		
D3004		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R3004		ERDS2TJ750	75	1	
R3005		ERDS2TJ750	75	1	
R3006		ERDS2TJ561	560	1	
R3007		ERDS2TJ750	75	1	NV-G10B,NV-G7B
R3023		ERDS2TJ392	3.9K	1	
R3024		ERDS2TJ334	330K	1	
R3031		ERDS2TJ750	75	1	NV-G10EG/EO
					NV-G7EG/EO
R8001		ERDS2TJ102	1K	1	
R8002		ERDS2TJ221	220	1	
R8003		ERDS2TJ822	8.2K	1	
R8004		ERDS2TJ821	820	1	
			VARIABLE RESISTORS		
VR3001		EVN61AA00B23	2K	1	
VR3051		EVN61AA00B22	200	1	
			CAPACITORS		
C3002		ECEA0JU471	ELECTROLYTIC 6.3V 470	1	
C3003		ECEA1CU470	ELECTROLYTIC 16V 47	1	
C3005		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C3017		ECCF1H100DC	CERAMIC 50V 10P	1	
C3019		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C8001		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C8002		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C8003		ECKF1H103ZF	CERAMIC 50V 0.01	1	
			COILS		
L3003		VLQEL05F101K	100uH	1	
L3007		VLQEL05F1R0K	1uH	1	
			CONNECTOR		
P3001		VJS1235T	8P	1	
			(TUNER SECTION)		
			INTEGRATED CIRCUIT		
IC7551		AN5033		1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSISTORS		
Q7551		2SB644		1	(R,S,T)
Q7552		2SB644		1	(R,S,T)
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
QR7551		DTC114EA		1	OR UN1211
					NV-G10EG/EO
					NV-G7EG/EO
			DIODES		
D7551		MA165		1	OR 1SS133,1SS119
D7554		LN28WPVT	LED	1	
D7555		MA27WB		1	
D7556		MA165		1	OR 1SS133,1SS119
D7557		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R7551		ERDS2TJ104	100K	1	
R7552		ERDS2TJ332	3.3K	1	
R7553		ERDS2TJ332	3.3K	1	
R7554		ERDS2TJ102	1K	1	
R7555		ERDS2TJ102	1K	1	
R7556		ERDS2TJ473	47K	1	
R7557		ERDS2TJ124	120K	1	
R7558		ERDS2TJ104	100K	1	
R7559		ERDS2TJ473	47K	1	
R7560		ERDS2TJ473	47K	1	
R7561		ERDS2TJ223	22K	1	
R7562		ERDS2TJ332	3.3K	1	
R7563		ERDS2TJ332	3.3K	1	
R7564		ERDS2TJ332	3.3K	1	
R7565		ERDS2TJ222	2.2K	1	
R7566		ERDS2TJ334	330K	1	NV-G10EG/EO
					NV-G7EG/EO
R7567		ERDS2TJ104	100K	1	NV-G10EG/EO
					NV-G7EG/EO
R7568		ERDS2TJ103	10K	1	
R7571		ERDS2TJ102	1K	1	
R7572		ERDS2TJ473	47K	1	
R7573		ERDS2TJ820	82	1	
R7574		ERDS2TJ333	33K	1	
R7575		ERDS2TJ273	27K	1	
R7576		ERDS2TJ390	39	1	
			VARIABLE RESISTOR		
VR7502		EVN61AA00B14	10K	1	
			CAPACITORS		
C7518		EECF5R5U473	5.5V 0.047	1	
C7551		ECQV1H104JZ	MYLAR 50V 0.1	1	
C7552		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C7553		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C7554		ECEA1HK220	ELECTROLYTIC 50V 22	1	
C7555		ECQB1H273JH	MYLAR 50V 0.027	1	
C7556		ECQV1H823JZ	MYLAR 50V 0.082	1	
C7557		ECQV1H683JZ	MYLAR 50V 0.068	1	
C7558		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C7559		ECQV1H104JZ	MYLAR 50V 0.1	1	
C7560		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C7561		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C7562		ECEA2AU100	ELECTROLYTIC 100V 10	1	
C7563		ECEA1HKN010	ELECTROLYTIC 50V 1	1	
C7564		ECKF1H102KB	CERAMIC 50V 1000P	1	
C7565		ECKF1H102KB	CERAMIC 50V 1000P	1	
C7566		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C7567		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C7568		ECEA1CK100	ELECTROLYTIC 16V 10	1	NV-G10B,NV-G7B

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			COILS		
L7551		VLQEL05F102K	1mH	1	
L7552		VLQEL05F101K	100uH	1	NV-G10B,NV-G7B
			(TV DEMODULATOR SECTION)		
			RESISTORS		
R701		ERDS2TJ123	12K	1	
R702		ERDS2TJ392	3.9K	1	
R703		ERDS2TJ562	5.6K	1	
R704		ERDS2TJ562	5.6K	1	NV-G10EG/EO
					NV-G7EG/EO
R707		ERDS2TJ103	10K	1	NV-G10EG/EO
					NV-G7EG/EO
R707		ERDS2TJ102	1K	1	NV-G10B,NV-G7B
R708		ERDS2TJ221	220	1	NV-G10EG/EO
					NV-G7EG/EO
			CAPACITORS		
C701		ECEA1CK220	ELECTROLYTIC 16V 22	1	
C702		ECEA1EK4R7	ELECTROLYTIC 25V 4.7	1	
C705		ECEA1CKS220	ELECTROLYTIC 16V 22	1	NV-G10EG/EO
					NV-G7EG/EO
C706		ECQV1H823JZ	MYLAR 50V 0.082	1	NV-G10EG/EO/B
C707		ECEA1HKS010	ELECTROLYTIC 50V 1	1	
C708		ECEA1CKS220	ELECTROLYTIC 16V 22	1	NV-G10EG/EO
					NV-G7EG/EO
C709		ECKF1H103ZF	CERAMIC 50V 0.01	1	NV-G10EG/EO
					NV-G7EG/EO
			COILS		
L701		VLQEL05F680K	68uH	1	OR ELESK680KA
					NV-G10EG/EO
					NV-G7EG/EO
L762		VLQEL05F221K	220uH	1	NV-G10EG/EO
					NV-G7EG/EO
L791		VLQEL05F221K	220uH	1	NV-G10EG/EO
					NV-G7EG/EO
			MISCELLANEOUS		
		VSC1695	HEAT SINK	1	FOR IC1001
					NV-G10EG/EO
					NV-G7EG/EO
		VSC1592	HEAT SINK	1	FOR IC1001
					NV-G10B,NV-G7B
		VSC1446	HEAT SINK	1	FOR Q1001
		VMC0075	HEAT SINK SPRING	1	FOR IC2001
		VMC0105	SUPORT ANGLE	1	FOR IC2001
		VSC1689	HEAT SINK	1	FOR IC2001
		VJF0317	SERVO C.B.A. SUPORT	1	
		VJF0331	CLAMPER	1	
		VJF0045	CLAMPER	1	
		VMP0848	EARTH ANGLE	1	
		VJF0330	BINDER	2	
		VJF0215	BINDER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP02225B	SERVO PACK C.B.A.		NV-G10EG/EO/B
			INTERGRATED CIRCUITS		
IC201		AN3795N		1	
IC203		AN6387		1	
IC205		BA8420		1	
IC206		AN3792		1	
IC207		MN6178VAH		1	
			TRANSISTORS		
Q201		2SB641		1	OR 2SA937M
Q203		2SD636		1	OR 2SC2021M
Q204		2SD636		1	OR 2SC2021M
Q205		2SD636		1	OR 2SC2021M
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
QR202		DTA144EA		1	OR UN1113
QR205		DTA124EA		1	OR UN1112
QR208		DTA144EA		1	OR UN1113
			DIODES		
D204		MA165		1	OR 1SS133,1SS119
D205		MA165		1	OR 1SS133,1SS119
D208		MA165		1	OR 1SS133,1SS119
D209		MA165		1	OR 1SS133,1SS119
D210		MA165		1	OR 1SS133,1SS119
D211		MA165		1	OR 1SS133,1SS119
D212		MA165		1	OR 1SS133,1SS119
D213		MA165		1	OR 1SS133,1SS119
D214		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R202		ERDS2TJ393	39K	1	
R203		ERDS2TJ102	1K	1	
R209		ERDS2TJ563	56K	1	
R210		ERDS2TJ272	2.7K	1	
R211		ERDS2TJ272	2.7K	1	
R217		EROS2CKG5101	METAL 5.1K	1	
R218		EROS2CKG8201	METAL 8.2K	1	
R219		ERDS2TJ154	150K	1	
R220		ERDS2TJ154	150K	1	
R221		ERDS2TJ333	33K	1	
R222		ERDS2TJ124	120K	1	
R223		ERDS2TJ332	3.3K	1	
R224		ERDS2TJ104	100K	1	
R225		ERDS2TJ124	120K	1	
R226		EROS2CKG2701	METAL 2.7K	1	
R227		ERX12SJR68	METAL OXIDE 1/2W 0.68	1	
R228		EROS2CKG2200	METAL 220	1	
R229		ERDS2TJ150	15	1	
R230		ERDS2TJ150	15	1	
R231		ERDS2TJ150	15	1	
R232		ERDS2TJ102	1K	1	
R233		ERDS2TJ105	1M	1	
R234		ERDS2TJ223	22K	1	
R235		ERDS2TJ224	220K	1	
R237		ERDS2TJ105	1M	1	
R239		ERDS2TJ102	1K	1	
R240		EROS2CKG3602	METAL 36K	1	
R241		ERDS2TJ124	120K	1	
R244		ERDS2TJ124	120K	1	
R245		ERDS2TJ184	180K	1	
R246		ERDS2TJ104	100K	1	
R248		ERDS2TJ473	47K	1	
R249		ERDS2TJ473	47K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R250		ERDS2TJ473	47K	1	
R251		ERDS2TJ473	47K	1	
R252		ERDS2TJ153	15K	1	
R253		ERDS2TJ223	22K	1	
R254		ERDS2TJ331	330	1	
R255		ERDS2TJ154	150K	1	
R256		ERDS2TJ154	150K	1	
R257		ERDS2TJ274	270K	1	
R258		ERDS2TJ563	56K	1	
R259		ERDS2TJ682	6.8K	1	
R260		ERDS2TJ333	33K	1	
R261		ERDS2TJ562	5.6K	1	
R264		ERDS2TJ103	10K	1	
R265		ERDS2TJ101	100	1	
			VARIABLE RESISTOR		
VR2003		EVL51MA00B25	200K	1	
			CAPACITORS		
C201		ECCF1H271JC	CERAMIC 50V 270P	1	
C202		VCYD1E102MR	SEMICONDUCTOR 25V 1000P	1	
C203		VCYD1E562MR	SEMICONDUCTOR 25V 5600P	1	
C204		ECEA1HK0R1	ELECTROLYTIC 50V 0.1	1	
C205		ECEA0JK330	ELECTROLYTIC 6.3V 33	1	
C207		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C208		ECQV1H334JZ	MYLAR 50V 0.33	1	
C209		ECQV1H683JZ	MYLAR 50V 0.068	1	
C210		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C211		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C212		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C213		ECEA10Z47	ELECTROLYTIC 10V 47	1	
C214		ECQB1H182KH	MYLAR 50V 1800P	1	
C215		ECQB1H562JH	MYLAR 50V 5600P	1	
C216		ECQB1H332JH	MYLAR 50V 3300P	1	
C217		ECQV1H124JZ	MYLAR 50V 0.12	1	
C218		ECQV1H274JZ	MYLAR 50V 0.27	1	
C219		ECQV1H394JZ	MYLAR 50V 0.39	1	
C220		ECQV1H184JZ	MYLAR 50V 0.18	1	
C221		ECKF1H122KB	CERAMIC 50V 1200P	1	
C222		ECQB1H332KH	MYLAR 50V 3300P	1	
C223		ECQB1H272JH	MYLAR 50V 2700P	1	
C225		ECEA1VKN2R2	ELECTROLYTIC 35V 2.2	1	
C226		ECEA1VKN2R2	ELECTROLYTIC 35V 2.2	1	
C227		ECEA50ZR22	ELECTROLYTIC 50V 0.22	1	
C228		VCYD1E123MR	SEMICONDUCTOR 25V 0.012	1	
C229		ECEA1EK3R3	ELECTROLYTIC 25V 3.3	1	
C230		ECEA1EK470	ELECTROLYTIC 25V 47	1	
C231		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C232		ECQB1H472KH	MYLAR 50V 4700P	1	
C233		ECQB1H682JH	MYLAR 50V 6800P	1	
C234		ECKF1H222KB	CERAMIC 50V 2200P	1	
C235		ECEA1VKN2R2	ELECTROLYTIC 35V 2.2	1	
C237		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C238		ECQB1H223JH	MYLAR 50V 0.022	1	
C239		ECQB1H562JH	MYLAR 50V 5600P	1	
C240		ECEA1HK0R1	ELECTROLYTIC 50V 0.1	1	
C241		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C242		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C243		ECEA0JK101	ELECTROLYTIC 6.3V 100	1	
C244		ECEA1EKN2R2	ELECTROLYTIC 25V 2.2	1	
C247		VCYD1E103JR	SEMICONDUCTOR 25V 0.01	1	
C248		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C249		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C250		ECKF1H222KB	CERAMIC 50V 2200P	1	
C251		ECQV1H104JZ	MYLAR 50V 0.1	1	
			COMBINATION PARTS		
			(CAPACITOR & RESISTOR)		
CR201		EXED223M222C	0.022 2.2K	1	
CR202		EXED472M104C	4700P 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CONNECTOR		
P201		VJP1237T	10P	1	
			PACK PINS		
PR201		VJR0189		1	
PR202		VJR0189		1	
PR203		VJR0189		1	
PR204		VJR0190		1	
PR205		VJR0190		1	
	■	VEP02234A	SERVO PACK C.B.A.		NV-G7EG/EO/B
			INTEGRATED CIRCUITS		
IC201		AN3795N			
IC203		AN6387		1	
IC205		BAL6309		1	
IC206		AN3792		1	
IC207		MN6178VAH			
			TRANSISTORS		
Q201		2SB641		1	OR 2SA937M
Q203		2SD636		1	OR 2SC2021M
Q204		2SD636		1	OR 2SC2021M
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
QR208		DTA144EA		1	OR UN1113
QR271		UN1111		1	
			DIODES		
D204		MA165		1	OR 1SS133,1SS119
D205		MA165		1	OR 1SS133,1SS119
D208		MA165		1	OR 1SS133,1SS119
D210		MA165		1	OR 1SS133,1SS119
D211		MA165		1	OR 1SS133,1SS119
D271		MA165		1	OR 1SS133,1SS119
D272		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R202		ERDS2TJ393	39K	1	
R203		ERDS2TJ102	1K	1	
R209		ERDS2TJ563	56K	1	
R210		ERDS2TJ272	2.7K	1	
R211		ERDS2TJ272	2.7K	1	
R217		EROS2CKG5101	METAL 5.1K	1	
R218		EROS2CKG8201	METAL 8.2K	1	
R219		ERDS2TJ154	150K	1	
R220		ERDS2TJ154	150K	1	
R221		ERDS2TJ333	33K	1	
R222		ERDS2TJ124	120K	1	
R223		ERDS2TJ332	3.3K	1	
R224		ERDS2TJ104	100K	1	
R225		ERDS2TJ124	120K	1	
R226		EROS2CKG2701	2.7K	1	
R227		ERX12SJR68	0.68	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R228		EROS2CKG2200	220	1	
R229		ERDS2TJ150	15	1	
R230		ERDS2TJ150	15	1	
R231		ERDS2TJ150	15	1	
R248		ERDS2TJ473	47K	1	
R249		ERDS2TJ473	47K	1	
R250		ERDS2TJ473	47K	1	
R252		ERDS2TJ153	15K	1	
R253		ERDS2TJ223	22K	1	
R254		ERDS2TJ331	330	1	
R255		ERDS2TJ154	150K	1	
R256		ERDS2TJ154	150K	1	
R257		ERDS2TJ274	270K	1	
R258		ERDS2TJ563	56K	1	
R259		ERDS2TJ682	6.8K	1	
R260		ERDS2TJ333	33K	1	
R261		ERDS2TJ562	5.6K	1	
R265		ERDS2TJ101	100	1	
R271		ERDS2TJ223	22K	1	
R272		ERDS2TJ104	100K	1	
R273		ERDS2TJ102	1K	1	
			VARIABLE RESISTOR		
VR2003		EVL51MA00B25	200K	1	
			CAPACITORS		
C202		VCYD1E102MR	SEMICONDUCTOR 25V 1000P	1	
C203		VCYD1E562MR	SEMICONDUCTOR 25V 5600P	1	
C204		ECEA1HK0R1	ELECTROLYTIC 50V 0.1	1	
C205		ECEA0JK330	ELECTROLYTIC 6.3V 33	1	
C207		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C208		ECQV1H334JZ	MYLAR 50V 0.33	1	
C209		ECQV1H683JZ	MYLAR 50V 0.068	1	
C210		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C211		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C212		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C213		ECEA10247	ELECTROLYTIC 10V 47	1	
C214		ECQB1H182KH	MYLAR 50V 1800P	1	
C225		ECEA1VKN2R2	ELECTROLYTIC 35V 2.2	1	
C226		ECEA1VKN2R2	ELECTROLYTIC 35V 2.2	1	
C227		ECEA50ZR22	ELECTROLYTIC 50V 0.22	1	
C228		VCYD1E123MR	SEMICONDUCTOR 25V 0.012	1	
C229		ECEA1EK3R3	ELECTROLYTIC 25V 3.3	1	
C230		ECEA1EK470	ELECTROLYTIC 25V 47	1	
C231		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C232		ECQB1H472KH	MYLAR 50V 4700P	1	
C233		ECQB1H682JH	MYLAR 50V 6800P	1	
C234		ECKF1H222KB	CERAMIC 50V 2200P	1	
C235		ECEA1VKN2R2	ELECTROLYTIC 35V 2.2	1	
C237		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C238		ECQB1H223JH	MYLAR 50V 0.022	1	
C239		ECQB1H562JH	MYLAR 50V 5600P	1	
C240		ECEA1HK0R1	ELECTROLYTIC 50V 0.1	1	
C241		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C242		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C243		ECEA0JK101	ELECTROLYTIC 6.3V 100	1	
C244		ECEA1EKN2R2	ELECTROLYTIC 25V 2.2	1	
C247		VCYD1E103JR	SEMICONDUCTOR 25V 0.01	1	
C248		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C249		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C250		ECKF1H222KB	CERAMIC 50V 2200P	1	
C251		ECQV1H104JZ	MYLAR 50V 0.1	1	
C271		ECQB1H562JH	MYLAR 50V 5600P	1	
C272		ECQB1H332JH	MYLAR 50V 3300P	1	
C273		ECQB1H332JH	MYLAR 50V 3300P	1	
			COMBINATION PARTS		
			(CAPACITOR & RESISTOR)		
CR201		EXED223M222C	0.022 2.2K	1	
CR202		EXED472M104C	4700P 100K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CONNECTOR		
P201		VJP1237T	10P	1	
			PACK PINS		
PR201		VJR0189		1	
PR202		VJR0189		1	
PR203		VJR0189		1	
PR204		VJR0190		1	
PR205		VJR0190		1	
	[redacted]	VEP03316A	LUMINANCE & CHOMINANCE		
		VEP03316B	PACK C.B.A.		
			INTEGRATED CIRCUITS		
IC301		VEFY014		1	F.I.C
IC302		BA7004		1	
IC801		VEFC013		1	F.I.C
			TRANSISTORS		
Q301		2SC2206		1	
Q302		2SC2206		1	
Q303		2SB641		1	OR 2SA937M
Q801		2SC2206		1	
Q802		2SD636		1	OR 2SC2021M
Q803		2SD636		1	OR 2SC2021M
Q804		2SC2206		1	
Q805		2SD636		1	OR 2SC2021M
Q806		2SC2206		1	
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
QR301		DTC144EA		1	OR UN1213
			DIODES		
D301		MA165		1	OR 1SS133,1SS119
D302		MA165		1	OR 1SS133,1SS119
D303		MA165		1	OR 1SS133,1SS119
D304		MA165		1	OR 1SS133,1SS119
D305		MA165		1	OR 1SS133,1SS119
D306		MA165		1	OR 1SS133,1SS119
D307		MA165		1	OR 1SS133,1SS119
D801		MA165		1	OR 1SS133,1SS119
D802		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R301		ERDS2TJ561	560	1	
R302		ERDS2TJ561	560	1	
R303		ERDS2TJ221	220	1	
R304		ERDS2TJ681	680	1	
R305		ERDS2TJ102	1K	1	
R306		ERDS2TJ151	150	1	
R307		ERDS2TJ152	1.5K	1	
R308		ERDS2TJ562	5.6K	1	
R309		ERDS2TJ684	680K	1	
R312		ERDS2TJ103	10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R313		ERDS2TJ393	39K	1	
R314		ERDS2TJ152	1.5K	1	
R315		ERDS2TJ272	2.7K	1	
R317		ERDS2TJ152	1.5K	1	
R318		ERDS2TJ152	1.5K	1	
R319		ERDS2TJ561	560	1	
R320		ERDS2TJ392	3.9K	1	
R321		ERDS2TJ683	68K	1	
R322		ERDS2TJ394	390K	1	
R323		ERDS2TJ394	390K	1	
R324		ERDS2TJ824	820K	1	
R325		ERDS2TJ102	1K	1	
R326		ERDS2TJ183	18K	1	
R327		ERDS2TJ123	12K	1	
R350		ERDS2TJ102	1K	1	
R351		ERDS2TJ823	82K	1	
R352		ERDS2TJ331	330	1	
R353		ERDS2TJ474	470K	1	
R801		ERDS2TJ102	1K	1	
R802		ERDS2TJ101	100	1	
R805		ERDS2TJ122	1.2K	1	
R806		ERDS2TJ271	270	1	
R807		ERDS2TJ272	2.7K	1	
R811		ERDS2TJ102	1K	1	
R812		ERDS2TJ471	470	1	
R813		ERDS2TJ104	100K	1	
R814		ERDS2TJ562	5.6K	1	
R815		ERDS2TJ562	5.6K	1	
R816		ERDS2TJ821	820	1	
R817		ERDS2TJ472	4.7K	1	
R818		ERDS2TJ273	27K	1	
R819		ERDS2TJ470	47	1	
R820		ERDS2TJ682	6.8K	1	
R821		ERDS2TJ822	8.2K	1	
R822		ERDS2TJ182	1.8K	1	
R823		ERDS2TJ152	1.5K	1	
R824		ERDS2TJ272	2.7K	1	
R825		ERDS2TJ562	5.6K	1	
R827		ERDS2TJ473	47K	1	
R828		ERDS2TJ472	4.7K	1	
R829		ERDS2TJ563	56K	1	
R830		ERDS2TJ563	56K	1	
R831		ERDS2TJ102	1K	1	
R832		ERDS2TJ271	270	1	
R833		ERDS2TJ471	470	1	
R834		ERDS2TJ121	120	1	
			VARIABLE RESISTOR		
VR801		EVNMHOGA00B52	500	1	
			CAPACITORS		
C302		ECEA0JU331	ELECTROLYTIC 6.3V 330	1	
C303		ECEA1AK470	ELECTROLYTIC 10V 47	1	
C304		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C305		VCKD1H151JA	SEMICONDUCTOR 50V 150P	1	
C306		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C307		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C308		ECQV1H104JZ	MYLAR 50V 0.01	1	
C309		ECCF1H560JC	CERAMIC 50V 56P	1	
C310		ECKF1H221KB	CERAMIC 50V 220P	1	
C311		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C312		ECEA1EK3R3	ELECTROLYTIC 25V 3.3	1	
C313		ECEA1HK2R2	ELECTROLYTIC 50V 2.2	1	
C314		ECEA1EK4R7	ELECTROLYTIC 25V 4.7	1	
C315		ECEA1EKN2R2	ELECTROLYTIC 25V 2.2	1	
C316		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C317		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C318		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C319		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C320		VCYD1E332KR	SEMICONDUCTOR 25V 3300P	1	
C321		VCYD1E332KR	SEMICONDUCTOR 25V 3300P	1	
C322		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C323		ECKF1H561KB	CERAMIC 50V 560P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C324		ECCF1H220JC	CERAMIC 50V 22P	1	
C325		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C326		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C327		ECEA1HKN0R1	ELECTROLYTIC 50V 0.1	1	
C330		ECCF1H220JC	CERAMIC 50V 22P	1	
C331		ECEA1AK470	ELECTROLYTIC 10V 22	1	
C332		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C802		ECQB1H223JH	MYLAR 50V 0.022	1	
C803		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C804		ECCF1H270JC	CERAMIC 50V 27P	1	
C805		ECKF1H471KB	CERAMIC 50V 470P	1	
C806		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C807		ECEA1HK2R2	ELECTROLYTIC 50V 2.2	1	
C808		ECEA10Z100	ELECTROLYTIC 10V 10	1	
C809		ECEA1AK470	ELECTROLYTIC 10V 47	1	
C810		ECCF1H050CC	CERAMIC 50V 5P	1	
C811		ECKF1H102KB	CERAMIC 50V 1000P	1	
C812		ECEA1AK470	ELECTROLYTIC 10V 47	1	
C813		ECQV1H154JZ	MYLAR 50V 0.15	1	
C814		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C815		ECKF1H471KB	CERAMIC 50V 470P	1	
C816		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C817		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C818		ECQV1H154JZ	MYLAR 50V 0.15	1	
C820		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C821		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C822		ECQV1H473JZ	MYLAR 50V 0.047	1	
C823		ECQV1H473JZ	MYLAR 50V 0.047	1	
C824		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C825		ECKF1H103ZF	CERAMIC 50V 0.01	1	
			COILS		
L301		VLQEL05F150K	15uH	1	
L302		VLQEL05F150K	15uH	1	
L303		VLQEL05F101K	100uH	1	
L304		VLQEL05F6R8K	6.8uH	1	
L306		VLQEL05F820K	82uH	1	
L307		VLQEL05F101K	100uH	1	
L308		VLQEL05F101K	100uH	1	
L309		VLQEL05F101K	100uH	1	
L310		VLQEL05F101K	100uH	1	
L801		VLQEL05F150K	15uH	1	
L802		VLQEL05F470K	47uH	1	
L803		VLQEL05F270K	27uH	1	
L804		VLQEL05F151K	150uH	1	
L805		VLQEL05F101K	100uH	1	
L806		VLQEL05F470K	47uH	1	
L807		VLQEL05F681K	680uH	1	
L808		VLQEL05F681K	680uH	1	
L809		VLQEL05F331K	330uH	1	
L810		VLQEL05F101K	100uH	1	
			COMBINATION PARTS		
			(CAPACITOR & RESISTOR)		
CR801		EXED820K332C	82P 3.3K	1	
			CRYSTAL OSCILLATORS		
X301		VSX0099		1	OR EF0A500K04D2
X801		VSX0129A		1	OR VSX0129B
			DELAY LINES		
DL301		EFDVN645A43D		1	
DL801		VLD0080		1	OR EFDHR124A13A
			FILTERS		
FL301		ELB4M022		1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
FL302		VLF0333		1	
FL303		ELB4H020		1	OR VLF0413
FL801		VLF0299		1	NV-G10EG,NV-G7EG
FL801		VLF0299		1	NV-G10EO/B,NV-G7EO/B
			COMBINATION PARTS		
Z801		VCR0118	(RESISTOR & RESISTOR)	1	OR VCR0135
Z802		VCR0119	(CAPACITOR & RESISTOR)	1	OR VCR0137
Z803		VCR0120	(CAPACITOR & RESISTOR)	1	OR VCR0136
			CONNECTORS		
P301		VJP1232T	5P	1	
P302		VJP1230T	10P	1	
			MISCELLANEOUS		
		VJR0128	PACK PIN 5P	3	
		VJR0164	PACK PIN 3P	1	
	■	VEP03294A	SECAM PACK C.B.A.		NV-G10EG,NV-G7EG
			INTEGRATED CIRCUIT		
IC851		BA7025L		1	
			TRANSISTOR		
Q851		2SC2206		1	(A,B,C)
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
QR851		DTC124EA		1	OR UN1212
QR852		DTC124EA		1	OR UN1212
			RESISTORS		
R854		ERDS2TJ472	4.7K		
R855		ERDS2TJ223	22K		
R856		ERDS2TJ390	39		
R857		ERDS2TJ222	2.2K		
R858		ERDS2TJ154	150K		
R859		ERDS2TJ221	220		
R860		ERDS2TJ102	1K		
R861		ERDS2TJ103	10K		
			CAPACITORS		
C851		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C852		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C853		ECEA1CK330	ELECTROLYTIC 16V 33	1	
C854		ECKF1H681KB	CERAMIC 50V 680	1	
C855		ECEA1AK470	ELECTROLYTIC 10V 47	1	
C856		ECEA1CK330	ELECTROLYTIC 16V 33	1	
C857		ECQV1H563JZ	MYLAR 50V 0.056	1	
C858		ECKF1H103ZF	CERAMIC 50V 0.01	1	
			COIL		
L851		VLQEL05F101K	100uH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			FILTER		
FL851		VLF0143		1	
			TRANSFORMER		
T851		ELM7Q207A		1	
	■	VEP04138	AUDIO PACK C.B.A.		
			INTEGRATED CIRCUITS		
IC401		uPC1514CA		1	
IC402		TA7361AP		1	OR uPC1519HA
			TRANSISTORS		
Q401		2SD602A		1	(R)
Q404		2SD1328		1	(Q,R,S)
			RESISTORS		
R401		ERJ6GMYJ153	CHIP 15K	1	
R402		ERJ6GMYJ392	CHIP 3.9K	1	
R403		ERJ6GMYJ182	CHIP 1.8K	1	
R404		ERJ6GMYJ560	CHIP 56	1	
R405		ERJ6GMYJ105	CHIP 1M	1	
R406		ERJ6GMYJ681	CHIP 680	1	
R407		ERJ6GMYJ911	CHIP 910	1	
R408		ERJ6GMYJ124	CHIP 120K	1	
R410		ERJ6GMYJ392	CHIP 3.9K	1	
R411		ERJ6GMYJ331	CHIP 330	1	
R413		ERJ6GMYJ332	CHIP 3.3K	1	
R415		ERJ6GMYJ563	CHIP 56K	1	
R418		ERJ6GMYJ102	CHIP 1K	1	
R419		ERJ6GMYJ392	CHIP 3.9K	1	
R420		ERJ6GMYJ561	CHIP 560	1	
R422		ERJ6GMYJ102	CHIP 1K	1	
R425		ERJ6GMYJ332	CHIP 3.3K	1	
R426		ERJ6GMYJ102	CHIP 1K	1	
			CAPACITORS		
C401		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C402		ECUX1H102KBN	CERAMIC 50V 1000P	1	
C403		ECEA1CKL100	ELECTROLYTIC 16V 10	1	
C404		ECQP1222JZ	MYLAR 100V 2200P	1	
C405		ECEA1AK470	ELECTROLYTIC 10V 47	1	
C406		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C407		ECUX1H101JCN	CERAMIC 50V 100P	1	
C408		ECEA1CKL100	ELECTROLYTIC 16V 10	1	
C409		ECEA0JK101	ELECTROLYTIC 6.3V 100	1	
C410		ECQB1H683JH	MYLAR 50V 0.068	1	
C411		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C412		ECEA1AK330	ELECTROLYTIC 10V 33	1	
C414		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C416		ECQB1H223JH	MYLAR 50V 0.022	1	
C417		ECQB1H333JH	MYLAR 50V 0.033	1	
C418		ECEA1CKL100	ELECTROLYTIC 16V 10	1	
C419		ECEA1AK330	ELECTROLYTIC 10V 33	1	
C420		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C421		ECCD2H121K	CERAMIC 500V 120P	1	
C422		ECEA1CK100	ELECTROLYTIC 16V 10	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			COILS		
L401		VLQEL05F471K	470uH	1	
L402		VLQEL07F822J	8200uH	1	
			COMBINATION PARTS		
			(CAPACITOR & RESISTOR)		
CR401		EXED103Z153C	0.01 15K	1	
CR402		EXED102K473C	1000P 47K	1	
			TRANSFORMER		
T401		EIQ7QF001B		1	
			FILTER		
FL401		VLF0332		1	
			PACK PINS		
PK401		VJR0131W		1	
PK402		VJR0128W		1	
	■	VEP07312A	TV DEMODULATOR PACK C.B.A.		NV-G10E0,NV-G7E0
		VEP07312B			NV-G10EG,NV-G7EG
			INTEGRATED CIRCUITS		
IC701		BN5115B		1	VIF IC
IC751		AN5215		1	SIF IC
IC7651		AN5421		1	
			TRANSISTORS		
Q702		2SB641		1	(Q,R,S,T) OR 2SA564,
					2SA733(Q,R,S),2SB642
					(Q,R,S,T)
Q703		2SD636		1	(S,T) OR 2SD637(S,T)
Q761		2SD636		1	(Q,R,S,T) OR 2SD637
					(Q,R,S,T)
Q7651		2SD636		1	(R,S,T) OR 2SC1684
					(R,S,T),2SC828(R,S,T)
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
QR7651		DTC114EA		1	OR UN1211
			DIODES		
D711		MA165		1	OR 1SS133
D712		MA165		1	OR 1SS133
D761		MA27WA		1	OR MA27WB
			RESISTORS		
R713		ERDS2TJ332	3.3K	1	
R716		ERDS2TJ392	3.9K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R721		ERDS2TJ121	120	1	
R722		ERDS2TJ274	270K	1	
R731		ERDS2TJ560	56	1	NV-G10E0,NV-G7E0
R731		ERDS2TJ221	220	1	NV-G10EG,NV-G7EG
R732		ERDS2TJ391	390	1	NV-G10E0,NV-G7E0
R732		ERDS2TJ471	470	1	NV-G10EG,NV-G7EG
R733		ERDS2TJ102	1K	1	
R734		ERDS2TJ393	39K	1	
R735		ERDS2TJ473	47K	1	
R736		ERDS2TJ272	2.7K	1	
R741		ERDS2TJ470	47	1	
R742		EROS2CKG1801	METAL 1.8K	1	
R743		EROS2CKG1501	METAL 1.5K	1	
R744		ERDS2TJ103	10K	1	
R745		ERDS2TJ680	68	1	
R746		ERDS2TJ151	150	1	
R747		ERDS2TJ102	1K	1	
R748		ERDS2TJ470	47	1	
R751		ERDS2TJ121	120	1	
R752		ERD2FCG220	FUSE 1/4W 22	1	<!>
R753		ERDS2TJ331	330	1	
R762		ERDS2TJ103	10K	1	
R7651		ERDS2TJ103	10K	1	
R7652		ERDS2TJ101	100	1	
R7653		ERDS2TJ471	470	1	
R7654		ERDS2TJ562	5.6K	1	
R7655		ERDS2TJ472	4.7K	1	
R7656		ERDS2TJ151	150	1	
R7657		ERDS2TJ104	100K	1	
R7658		ERDS2TJ393	39K	1	
R7659		ERDS2TJ822	8.2K	1	
R7661		ERDS2TJ562	5.6K	1	
R7662		ERDS2TJ393	39K	1	
R7663		ERDS2TJ222	2.2K	1	
R7664		ERDS2TJ332	3.3K	1	
			VARIABLE RESISTORS		
VR701		EVMK3GA00B23	2K	1	
VR702		EVMK3GA00B23	2K	1	
VR741		EVNE4AA00B24	20K	1	OR VRV0022
VR751		EVNE4AA00B14	10K	1	OR VRV0021
VR7660		EVMK3GA00B23	2K	1	
			CAPACITORS		
C711		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C712		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C713		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C714		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C721		ECCF1H070CC	CERAMIC 50V 7P	1	NV-G10E0,NV-G7E0
C721		ECCF1H060CC	CERAMIC 50V 6P	1	NV-G10EG,NV-G7EG
C722		ECCF1H030CC	CERAMIC 50V 3P	1	
C723		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C724		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C725		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C726		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C727		ECQV1H224JZ	MYLAR 50V 2.2	1	
C728		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C730		ECCF1H060CC	CERAMIC 50V 6P	1	
C731		ECCF1H040CC	CERAMIC 50V 4P	1	NV-G10E0,NV-G7E0
C731		ECCF1H050CC	CERAMIC 50V 5P	1	NV-G10EG,NV-G7EG
C732		ECCF1H040CC	CERAMIC 50V 4P	1	NV-G10E0,NV-G7E0
C732		ECCF1H030CC	CERAMIC 50V 3P	1	NV-G10EG,NV-G7EG
C733		ECCF1H220JC	CERAMIC 50V 22P	1	
C734		ECCF1H121JP	CERAMIC 50V 120P	1	
C735		ECCF1H150JC	CERAMIC 50V 15P	1	
C736		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C737		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C738		ECCF1H150JC	CERAMIC 50V 15P	1	
C739		ECCF1H560JR	CERAMIC 50V 56P	1	
C740		ECCF1H220JR	CERAMIC 50V 22P	1	
C741		ECCF1H220JC	CERAMIC 50V 22P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C742		ECCF1H390JC	CERAMIC 50V 39P	1	
C751		ECCF1H820JC	CERAMIC 50V 82P	1	
C752		ECCF1H050CC	CERAMIC 50V 5P	1	
C753		ECCF1H820JP	CERAMIC 50V 82P	1	
C754		ECQV1H473JZ	MYLAR 50V 0.047	1	
C755		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C756		ECCF1H390JR	CERAMIC 50V 39P	1	
C757		ECCF1H120JC	CERAMIC 50V 12P	1	
C758		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C759		ECQV1H104JZ	MYLAR 50V 0.1	1	
C761		ECCF1H150JC	CERAMIC 50V 15P	1	NV-G10EO,NV-G7EO
C761		ECCF1H030CC	CERAMIC 50V 3P	1	NV-G10EG,NV-G7EG
C762		ECCF1H100DC	CERAMIC 50V 10P	1	NV-G10EO,NV-G7EO
C762		ECCF1H270JC	CERAMIC 50V 27P	1	NV-G10EG,NV-G7EG
C763		ECCF1H151JP	CERAMIC 50V 150P	1	NV-G10EO,NV-G7EO
C763		ECCF1H121JP	CERAMIC 50V 120P	1	NV-G10EG,NV-G7EG
C764		ECCF1H150JP	CERAMIC 50V 15P	1	NV-G10EG,NV-G7EG
C765		ECCF1H151JC	CERAMIC 50V 150P	1	NV-G10EG,NV-G7EG
C766		ECQV1H104JZ	MYLAR 50V 0.1	1	
C7651		ECEA1CK330	ELECTROLYTIC 50V 33	1	
C7652		ECEA1CKN330	ELECTROLYTIC 50V 33	1	
C7653		ECQB1H392JH	MYLAR 50V 3900P	1	
C7654		ECQB1H103JH	MYLAR 50V 0.01	1	
C7655		ECEA1HK3R3	ELECTROLYTIC 50V 3.3	1	
C7656		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C7657		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C7658		ECQP1562JZ	MYLAR 50V 5600P	1	
C7659		ECQB1H272JH	MYLAR 50V 2700P	1	
			COILS		
L702		VLQEL05F470K	47uH	1	
L704		VLQEL05F120K	12uH	1	
L705		VLQEL05F330K	33uH	1	
L706		VLQEL05F331K	330uH	1	
L751		VLQEL05F220K	22uH	1	
L761		VLQEL05F3R3K	3.3uH	1	NV-G10EG,NV-G7EG
			CRYSTAL OSCILLATORS		
X702		EFCS5R5MS4		1	OR VLF0178
X703		EFCS5R5MW3		1	OR VLF0182
			TRANSFORMERS		
T701		EULHLS310		1	NV-G10EG,NV-G7EG
T701		EULHLS315		1	NV-G10EO,NV-G7EO
T702		ELM7A4101Y		1	
T703		EIV7E016F		1	
T704		EIV7E016E		1	
T705		ELM7A4101Y		1	
T715		EIS7E006A		1	
T752		EIS7E006B		1	
			MISCELLANEOUS		
		VJR0162	PACK PIN 8P	2	
		VSC1148	SHIELD CASE	1	(BOTTOM)
		VSC1216	SHIELD CASE	1	(TOP)
		VSC1589	SHIELD CASE	1	(MAIN)
	■	VEP07302D	TV DEMODULATOR PACK C.B.A.		NV-G10B,NV-G7B
			INTEGRATED CIRCUITS		
IC701		BN5115B		1	VIF IC
IC751		AN5215		1	SIF IC

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSISTORS		
Q702		2SB641		1	(Q,R,S,T) OR 2SA564,
					2SA733(Q,R,S)
Q703		2SD636		1	(S,T) OR 2SD637(S,T)
Q761		2SD636		1	(Q,R,S,T) OR 2SD637
					(Q,R,S,T)
			DIODES		
D711		MA165		1	
D761		MA27WA		1	OR MA27WB
			RESISTORS		
R713		ERDS2TJ182	1.8K	1	
R721		ERDS2TJ151	150	1	
R722		ERDS2TJ274	270K	1	
R731		ERDS2TJ271	270	1	
R732		ERDS2TJ391	390	1	
R733		ERDS2TJ102	1K	1	
R734		ERDS2TJ393	39K	1	
R735		ERDS2TJ473	47K	1	
R736		ERDS2TJ272	2.7K	1	
R741		ERDS2TJ470	47K	1	
R742		EROS2CKG1001	METAL 1K	1	
R743		EROS2CKG8200	METAL 820	1	
R744		ERDS2TJ332	3.3K	1	
R745		ERDS2TJ680	68	1	
R746		ERDS2TJ151	1.5K	1	
R747		ERDS2TJ102	1K	1	
R748		ERDS2TJ470	47	1	
R751		ERDS2TJ121	120	1	
R752		ERD2FCG220	FUSE 1/4W 22	1	<!>
R753		ERDS2TJ331	330	1	
R762		ERDS2TJ103	10K	1	
			VARIABLE RESISTORS		
VR701		EVN61AA00B23	2K	1	
VR741		EVNE4AA00B24	20K	1	
VR751		EVNE4AA00B14	10K	1	
			CAPACITORS		
C711		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C712		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C713		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C714		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C721		ECCF1H030CC	CERAMIC 50V 3P	1	
C722		ECCF1H060CC	CERAMIC 50V 6P	1	
C723		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C724		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C725		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C726		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C727		ECQV1H224JZ	MYLAR 50V 2.2	1	
C728		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C730		ECCF1H050CC	CERAMIC 50V 5P	1	
C731		ECCF1H040CC	CERAMIC 50V 4P	1	
C732		ECCF1H040CC	CERAMIC 50V 4P	1	
C733		ECCF1H220JC	CERAMIC 50V 22P	1	
C734		ECCF1H121JP	CERAMIC 50V 120P	1	
C735		ECCF1H150JC	CERAMIC 50V 15P	1	
C736		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C737		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C738		ECCF1H150JC	CERAMIC 50V 15P	1	
C739		ECCF1H560JR	CERAMIC 50V 56P	1	
C740		ECCF1H220JR	CERAMIC 50V 22P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C741		ECCF1H220JC	CERAMIC 50V 22P	1	
C742		ECCF1H680JC	CERAMIC 50V 68P	1	
C751		ECCF1H820JC	CERAMIC 50V 82P	1	
C752		ECCF1H050CC	CERAMIC 50V 5P	1	
C753		ECCF1H820JP	CERAMIC 50V 82P	1	
C754		ECQV1H473JZ	MYLAR 50V 0.047	1	
C755		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C756		ECCF1H390JR	CERAMIC 50V 39P	1	
C757		ECCF1H120JC	CERAMIC 50V 12P	1	
C758		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C759		ECQV1H104JZ	MYLAR 50V 0.1	1	
C766		ECQV1H104JZ	MYLAR 50V 0.1	1	
			COILS		
L702		VLQEL05F470K	47uH	1	
L704		VLQEL05F120K	12uH	1	
L705		VLQEL05F560K	56uH	1	
L706		VLQEL05F820K	82uH	1	
L751		VLQEL05F220K	22uH	1	
			CRYSTAL OSCILLATORS		
X702		EFCS6R0MS4		1	OR VLF0179
X703		EFCS6R0MW3		1	OR VLF0183
			TRANSFORMERS		
T701		EULHLS401		1	
T702		ELM7A4101Y		1	
T703		EIV7E016F		1	
T704		EIV7E016E		1	
T751		EIS7E006A		1	
T752		EIS7E006B		1	
			MISCELLANEOUS		
		VJR0162	PACK PIN 8P	2	
		VSC1148	SHIELD CASE	1	(BOTTOM)
		VSC1216	SHIELD CASE	1	(TOP)
		VSC1589	SHIELD CASE	1	(MAIN)
	■	VEP03318A	REC AMP PACK C.B.A.		
			TRANSISTORS		
Q3501		2SC2206		1	(B,C)
Q3502		2SC2206		1	(B,C)
Q3503		2SB641		1	(R,S) OR 2SA937M(R,S)
Q3504		2SB641		1	(Q,R,S)
Q3601		2SC2206		1	
Q3602		2SB641		1	OR 2SA937M
Q3603		2SB641		1	OR 2SA937M
Q3604		2SD636		1	OR 2SC2021M
Q3605		2SB641		1	OR 2SA937M
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
QR3601		DTC114EA		1	OR UN1211
			DIODES		
D3601		1SS99		1	
D3602		1SS99		1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			RESISTORS		
R3501		ERDS2TJ561	560		
R3502		ERDS2TJ682	6.8K	1	
R3503		ERDS2TJ122	1.2K	1	
R3504		EROS2CKG1201	METAL 1.2K	1	
R3505		EROS2CKG5600	METAL 560	1	
R3506		ERDS2TJ221	220	1	
R3507		ERDS2TJ682	6.8K	1	
R3508		ERDS2TJ682	6.8K	1	
R3509		ERDS2TJ560	56	1	
R3510		ERDS2TJ560	56	1	
R3511		ERDS2TJ562	5.6K	1	
R3512		EROS2CKG4700	470	1	
R3601		ERDS2TJ471	470	1	
R3602		ERDS2TJ471	470	1	
R3603		ERDS2TJ471	470	1	
R3604		ERDS2TJ182	1.8K	1	
R3605		ERDS2TJ680	68	1	
R3606		ERDS2TJ102	1K	1	
R3609		ERDS2TJ823	82K	1	
R3610		ERDS2TJ183	18K	1	
R3611		ERDS2TJ102	1K	1	
R3612		ERDS2TJ681	680	1	
R3613		ERDS2TJ150	15	1	
			VARIABLE RESISTOR		
VR3601		EVLS0AA00B22	200	1	
			CAPACITORS		
C3501		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C3502		ECCF1H820KC	CERAMIC 50V 82P	1	OR ECCF1H820JC
C3503		ECKF1H271KB	CERAMIC 50V 270P	1	
C3504		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C3505		VCYD1C333MR1	SEMICONDUCTOR 16V 0.033	1	
C3506		ECKF1H471KB	CERAMIC 50V 470P	1	
C3507		ECKF1H472ZF	CERAMIC 50V 4700P	1	
C3508		ECCF1H120KC	CERAMIC 50V 12P	1	OR ECCF1H120JC
C3509		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C3510		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C3601		ECCF1H820JC	CERAMIC 50V 82P	1	
C3602		ECKF1H121KB	CERAMIC 50V 120P	1	
C3603		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C3604		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C3605		ECCF1H390JC	CERAMIC 50V 39P	1	
C3606		ECCF1H100DC	CERAMIC 50V 10P	1	
			COILS		
L3501		VLQEL05F101K	100uH	1	
L3502		VLQEL05F101K	100uH	1	
L3601		VLQEL05F101K	100uH	1	
L3602		VLQEL05F390K	39uH	1	
			CONNECTOR		
P3602		VJP1232T	5P	1	
			MISCELLANEOUS		
		VJF0346	C.B.A. HOLDER	1	
		VXA2555	BARRIER UNIT	1	
		VJR0188	PACK PIN 8P	1	
		VHN0041	RIVET	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP05082	HEAD AMP PACK C.B.A.		NV-G10EG/EO/B
			INTIGRATED CIRCUIT		
IC501		AN3311S		1	
			TRANSISTORS		
Q501		2SD601		1	(Q,R,S)
Q502		2SD601		1	(Q,R,S)
Q503		2SD601		1	(Q,R,S)
Q504		2SD601		1	(Q,R,S)
Q505		2SC2404		1	(C,D)
			RESISTORS		
R501		ERJ6GMYJ122	CHIP 1.2K	1	
R503		ERJ6GMYJ821	CHIP 820	1	
R504		ERJ6GMYJ821	CHIP 820	1	
R505		ERJ6GMYJ471	CHIP 470	1	
R506		ERJ6GMYJ222	CHIP 2.2K	1	
R507		ERJ6GMYJ222	CHIP 2.2K	1	
R508		ERJ6GMYJ100	CHIP 10	1	
R509		ERJ6GMYJ100	CHIP 10	1	
R510		ERJ6GMYJ222	CHIP 2.2K	1	
R511		ERJ6GMYJ152	CHIP 1.5K	1	
R513		ERJ6GMYJ102	CHIP 1K	1	
R514		ERJ6GMYJ122	CHIP 1.2K	1	
R515		ERJ6GMYJ331	CHIP 330	1	
R516		ERJ6GMYJ102	CHIP 1K	1	
R551		ERJ6GMYJ222	CHIP 2.2K	1	
			CAPACITORS		
C501		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C502		ECUX1H150JCN	CERAMIC 50V 15P	1	
C503		ECUX1H103ZFN	CERAMIC 50V 0.01	1	
C504		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C505		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C506		ECUX1H103ZFN	CERAMIC 50V 0.01	1	
C507		ECUX1H150JCN	CERAMIC 50V 15P	1	
C508		ECUX1H150JCN	CERAMIC 50V 15P	1	
C509		ECUX1H103ZFN	CERAMIC 50V 0.01	1	
C510		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C513		ECUX1H180JCN	CERAMIC 50V 18P	1	
C514		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C515		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C516		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C519		ECUX1H151JCN	CERAMIC 50V 150P	1	
C520		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C521		ECUX1H103ZFN	CERAMIC 50V 0.01	1	
C522		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C523		ECEA0JK220	ELECTROLYTIC 6.3V 22	1	
C524		ECUX1H122KBN	CERAMIC 50V 1200P	1	
C551		ECUX1H150JCN	CERAMIC 50V 15P	1	
C552		ECUX1H681KBN	CERAMIC 50V 680P	1	
			COILS		
L501		VLQE105F101K	100uH	1	
L504		VLQE105F180K	18uH	1	
L551		VLQ0165		1	
L552		VLQ0166		1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CONNECTORS		
P002		VJS1449	8P	1	
P501		VJP1248T	8P	1	
			MISCELLANEOUS		
		VSC1288	SHIELD CASE	1	(TOP)
		VSC1289	SHIELD CASE	1	(MAIN)
		VSC1290	SHIELD CASE	1	(BOTTOM)
	■	VEP05064	HEAD AMP C.B.A.		NV-G7EG/EO/B
			INTEGRATED CIRCUIT		
IC501		AN3310S		1	
			TRANSISTORS		
Q501		2SD601		1	(Q,R,S)
Q502		2SD601		1	(Q,R,S)
Q503		2SD601		1	(Q,R,S)
Q504		2SD601		1	(Q,R,S)
Q505		2SC2404		1	(C,D)
			RESISTORS		
R501		ERJ6GMYJ122	CHIP 1.2K	1	
R504		ERJ6GMYJ821	CHIP 820	1	
R505		ERJ6GMYJ821	CHIP 820	1	
R506		ERJ6GMYJ222	CHIP 2.2K	1	
R507		ERJ6GMYJ222	CHIP 2.2K	1	
R508		ERJ6GMYJ100	CHIP 10	1	
R509		ERJ6GMYJ100	CHIP 10	1	
R510		ERJ6GMYJ222	CHIP 2.2K	1	
R511		ERJ6GMYJ152	CHIP 1.5K	1	
R513		ERJ6GMYJ102	CHIP 1K	1	
R514		ERJ6GMYJ122	CHIP 1.2K	1	
R515		ERJ6GMYJ331	CHIP 330	1	
R516		ERJ6GMYJ102	CHIP 1K	1	
R551		ERJ6GMYJ222	CHIP 2.2K	1	
			CAPACITORS		
C501		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C505		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C506		ECUX1H103ZFN	CERAMIC 50V 0.01	1	
C507		ECUX1H150JCN	CERAMIC 50V 15P	1	
C508		ECUX1H150JCN	CERAMIC 50V 15P	1	
C509		ECUX1H103ZFN	CERAMIC 50V 0.01	1	
C510		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C513		ECUX1H180JCN	CERAMIC 50V 18P	1	
C514		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C515		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C516		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C519		ECUX1H151JCN	CERAMIC 50V 150P	1	
C520		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C522		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C523		ECEA0JK220	ELECTROLYTIC 6.3V 22	1	
C524		ECUX1H122KBN	CERAMIC 50V 1200P	1	
C551		ECUX1H150JCN	CERAMIC 50V 15P	1	
C552		ECUX1H681KBN	CERAMIC 50V 680P	1	
			COILS		
L501		VLQEL05F101K	100uH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L504		VLQEL05F180K	18uH	1	
L506		VLP0018		1	
L507		VLP0018		1	
L551		VLQEL05F180K	18uH	1	
L552		VLQEL05F101K	100uH	1	
			CONNECTORS		
P002		VJS1449	8P	1	
P501		VJP1248T	8P	1	
			MISCELLANEOUS		
		VSC1288	SHIELD CASE	1	(TOP)
		VSC1289	SHIELD CASE	1	(MAIN)
		VSC1290	SHIELD CASE	1	(BOTTOM)
	■	VEP06334A	OPERATION C.B.A.		NV-G10EG/EO/B
			INTEGRATED CIRCUIT		
IC6201		MN1550VQV		1	
			TRANSISTORS		
Q6201		2SD636		1	(S) OR 2SD637(S)
Q6202		2SD636		1	(S) OR 2SD637(S)
			DIODES		
D6201		MA165		1	OR 1SS133,1SS119
D6202		MA165		1	OR 1SS133,1SS119
D6203		MA165		1	OR 1SS133,1SS119
D6205		LN31GCPHLG	LED	1	
D6206		LN81RCPHL	LED	1	
D6207		MA165		1	OR 1SS133,1SS119
D6208		VLL0038	LED	1	
D6209		VLL0038	LED	1	
			RESISTORS		
R6201		ERDS2TJ122	1.2K	1	
R6202		ERDS2TJ122	1.2K	1	
R6203		ERDS2TJ181	180	1	
R6204		ERDS2TJ181	180	1	
			CAPACITORS		
C6201		ECCF1H680JC	CERAMIC 50V 68P	1	
C6202		ECCF1H330JC	CERAMIC 50V 33P	1	
C6203		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C6204		ECEA0JK220	ELECTROLYTIC 6.3V 22	1	
			CRYSTAL OSCILLATOR		
X6201		EFOA4R0M03C1		1	
			SWITCHES		
SW6201		EVQQS307K		1	
SW6202		EVQQS307K		1	
SW6203		EVQQS307K		1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
SW6204		EVQQS307K		1	
SW6205		EVQQS307K		1	
SW6206		EVQQS307K		1	
SW6207		EVQQS307K		1	
SW6208		EVQQS307K		1	
SW6209		EVQQS307K		1	
			CONNECTORS		
P6201		VJS1730	12P	1	
P6202		VJP1232T	5P	1	
			MISCELLANEOUS		
		KL04	LED SPACER	2	
	■	VEP06350A	OPERATION C.B.A.		NV-G7EG/EO/B
			DIODES		
D6201		MA165		1	
D6203		MA165		1	
D6205		LN31GCPHLG		1	
D6206		LN81RCPHL	POWER LED	1	
D6207		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R6201		ERDS2TJ122	1.2K	1	
R6202		ERDS2TJ122	1.2K	1	
			SWITCHES		
SW6201		EVQQS307K		1	
SW6202		EVQQS307K		1	
SW6206		EVQQS307K		1	
SW6207		EVQQS307K		1	
SW6208		EVQQS307K		1	
SW6209		EVQQS307K		1	
SW6210		EVQQS307K		1	
SW6211		EVQQS307K		1	
			CONNECTOR		
P6201		VJS1730	12P	1	
			MISCELLANEOUS		
		KL04	LED SPACER	2	
	■	VEP07323A	TIMER & CH SELECT C.B.A.		NV-G10EG
		VEP07323B			NV-G7EG
			INTEGRATED CIRCUITS		
IC7501		MN152611VEA		1	
IC7502		MN1220		1	
IC7503		uPC1373HA		1	OR uPC1373H
IC7504		MN1280P		1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSISTORS		
Q7501		2SD637		1	
Q7502		2SD636		1	OR 2SC2021M
Q7503		2SB641		1	OR 2SA937M
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
QR7501		DTC144EA		1	OR UN1213
QR7502		DTC144EA		1	OR UN1213
QR7503		DTA124EA		1	OR UN1112
			DIODES		
D7501		ERA15-01		1	
D7502		MA4075		1	
D7504		LN38GCPP		1	
D7505		MA165		1	OR 1SS133
D7506		MA165		1	OR 1SS133
D7507		MA165		1	OR 1SS133
D7508		MA165		1	OR 1SS133
D7509		MA165		1	OR 1SS133
D7510		MA165		1	OR 1SS133
D7511		MA165		1	OR 1SS133
D7512		MA165		1	OR 1SS133
D7513		MA165		1	OR 1SS133
D7514		MA165		1	OR 1SS133
D7515		MA165		1	OR 1SS133
D7516		MA165		1	OR 1SS133
D7528		MA165		1	OR 1SS133
			RESISTORS		
R7501		ERDS2TJ122	1.2K	1	
R7502		ERC14GK126	SOLID 1/2W 12M	1	OR ERC14GJ126
R7503		ERDS2TJ473	47K	1	
R7504		ERDS2TJ331	330	1	
R7505		ERDS2TJ820	82	1	
R7506		ERDS2TJ820	82	1	
R7507		ERDS2TJ104	100K	1	
R7508		ERDS2TJ470	47	1	
R7509		ERDS2TJ102	1K	1	
R7510		ERDS2TJ223	22K	1	
R7511		ERDS2TJ332	3.3K	1	
R7512		ERDS2TJ332	3.3K	1	
R7515		ERDS2TJ391	390	1	
R7516		ERDS2TJ181	180	1	
R7517		ERDS2TJ122	1.2K	1	
R7518		ERDS2TJ271	270	1	
R7519		ERDS2TJ473	47K	1	
R7520		ERDS2TJ124	120K	1	
R7521		ERDS2TJ473	47K	1	
R7522		ERDS2TJ334	330K	1	
R7523		ERDS2TJ154	150K	1	
R7524		ERDS2TJ120	12	1	
R7525		ERDS2TJ102	1K	1	
R7526		ERDS2TJ682	6.8K	1	
R7527		ERDS2TJ103	10K	1	
R7528		ERDS2TJ103	10K	1	
R7529		ERDS2TJ103	10K	1	
R7530		ERDS2TJ392	3.9K	1	
R7586		ERDS2TJ224	220K	1	
			VARIABLE RESISTORS		
VR2007		EVUFMAE03B15	100K	1	
VR2008		EVUFMAE03B15	100K	1	NV-G10EG
VR3004		EVUJ08E03B24	20K	1	
VR7505		EWEU2A016B24	20K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C7501		ECCF1H080DC	CERAMIC 50V 8P	1	
C7502		ECRHA030E11	TRIMER 30P	1	
C7503		ECEA1HKR22	ELECTROLYTIC 50V 0.22	1	
C7504		ECCF1H220JC	CERAMIC 50V 22P	1	
C7505		ECCF1H330JC	CERAMIC 50V 33P	1	
C7506		ECEA1AK101	ELECTROLYTIC 10V 100	1	
C7507		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C7508		ECEA1CKS330	ELECTROLYTIC 16V 33	1	
C7510		ECEA1HK100	ELECTROLYTIC 50V 10	1	
C7511		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C7512		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C7513		ECEA1HKR47	ELECTROLYTIC 50V 0.47	1	
C7514		ECQB1H183JH	MYLAR 50V 0.018	1	
C7515		ECKF1H331KB	CERAMIC 50V 330P	1	
C7516		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C7517		VCF0006	MYLAR 4700P	1	
C7519		ECQB1H102JH	MYLAR 50V 1000P	1	
C7520		ECEA1AKS220	ELECTROLYTIC 10V 22	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140		1	
X7502		VSX0094		1	
			SWITCHES		
SW7501		EVQQS307K		1	
SW7502		EVQQS307K		1	
SW7503		EVQQS307K		1	
SW7504		EVQQS307K		1	
SW7505		EVQQS307K		1	
SW7506		EVQQS307K		1	
SW7507		EVQQS307K		1	
SW7508		EVQQS307K		1	
SW7509		EVQQS307K		1	
SW7510		EVQQS307K		1	
SW7511		EVQQS307K		1	
SW7512		EVQQS307K		1	
SW7513		EVQQS307K		1	
SW7514		EVQQS307K		1	
SW7515		EVQQS307K		1	
SW7516		ESD14314		1	
SW7517		ESD14137A		1	
SW7520		ESD14314		1	
SW7521		ESD14314		1	
			TRANSFORMER		
T7501		EIR7QE007B		1	
			DISPLAY TUBE		
DP7501		VSL0090		1	
			CONNECTORS		
P7501		VJS1642	8P	1	
P7502		VJS1729	10P	1	
P7503		VJS1491	13P	1	
P7504		VJP1231T	4P	1	
			MISCELLANEOUS		
		VGT0305	PRESET VR KNOB	1	NV-G10EG

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VGU2851	PRESET VR KNOB	1	NV-G7EG
		VJF0319	F.I.P HOLDER	1	
		VSC1586	SHIELD CASE	1	(TOP)
		VSC1623	SHIELD CASE	1	(MAIN)
		VSC1519	SHIELD CASE	1	(BOTTOM)
		VSC1520	SHIELD PLATE	1	
		VMZ0765	INSULATION CAP	1	
		KL02	SPACER	1	
		VGT0319	VR KNOB	1	FOR SW7516 NV-G10EG
		VGU2850	VR KNOB	1	FOR SW7516 NV-G7EG
		VEP07300D	TIMER & CH SELECT C.B.A.		NV-G10EO
		VEP07300E			NV-G10B
		VEP07300F			NV-G7EO
		VEP07300G			NV-G7B
			INTEGRATED CIRCUITS		
IC7501		MN15261VQY		1	
IC7502		MN1220		1	
IC7503		uPC1373HA		1	OR uPC1373H
IC7504		MN1280P		1	
			TRANSISTORS		
Q7501		2SD637		1	
Q7502		2SD636		1	OR 2SC2021M
Q7503		2SB641		1	OR 2SA937M
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
QR7501		DTC144EA		1	OR UN1213
QR7502		DTC144EA		1	OR UN1213
QR7503		DTA124EA		1	OR UN1112
			DIODES		
D7501		ERA15-01		1	
D7502		MA4075	ZENER	1	
D7504		LN38GCPP	LED	1	
D7505		MA165		1	OR 1SS133
D7506		MA165		1	OR 1SS133
D7507		MA165		1	OR 1SS133
D7508		MA165		1	OR 1SS133
D7510		MA165		1	OR 1SS133
D7511		MA165		1	OR 1SS133
D7512		MA165		1	OR 1SS133
D7513		MA165		1	OR 1SS133
D7514		MA165		1	OR 1SS133
D7515		MA165		1	OR 1SS133
D7516		MA165		1	OR 1SS133
D7519		MA165		1	OR 1SS133
D7520		MA165		1	OR 1SS133
D7521		MA165		1	OR 1SS133
D7524		MA165		1	OR 1SS133
D7526		MA165		1	OR 1SS133
			RESISTORS		
R7501		ERDS2TJ122	1.2K	1	
R7502		ERC14GK126	SOLID 1/2W 12M	1	OR ERC14GJ126
R7503		ERDS2TJ473	47K	1	
R7504		ERDS2TJ331	330	1	
R7505		ERDS2TJ820	82	1	
R7506		ERDS2TJ820	82	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7507		ERDS2TJ104	100K	1	
R7508		ERDS2TJ470	47	1	
R7509		ERDS2TJ102	1K	1	
R7510		ERDS2TJ223	22K	1	
R7511		ERDS2TJ332	3.3K	1	
R7512		ERDS2TJ332	3.3K	1	
R7515		ERDS2TJ391	390	1	
R7516		ERDS2TJ181	180	1	
R7517		ERDS2TJ122	1.2K	1	
R7518		ERDS2TJ271	270	1	
R7519		ERDS2TJ473	47K	1	
R7520		ERDS2TJ124	120K	1	
R7521		ERDS2TJ473	47K	1	
R7522		ERDS2TJ334	330K	1	
R7523		ERDS2TJ154	150K	1	
R7524		ERDS2TJ120	12	1	
R7525		ERDS2TJ102	1K	1	
R7526		ERDS2TJ682	6.8K	1	
R7527		ERDS2TJ103	10K	1	
R7528		ERDS2TJ103	10K	1	
R7529		ERDS2TJ103	10K	1	
R7530		ERDS2TJ392	3.9K	1	
R7586		ERDS2TJ224	220K	1	
			VARIABLE RESISTORS		
VR2007		EVUFMAE03B15	100K	1	
VR2008		EVUFMAE03B15	100K	1	NV-G10EO/B
VR3004		EVUJ08E03B24	20K	1	
VR7505		EWEU2A016B24	20K	1	
			CAPACITORS		
C7501		ECCF1H080DC	CERAMIC 50V 8P	1	
C7502		ECRHA030E11	TRIMMER 30P	1	
C7503		ECEA1HKR22	ELECTROLYTIC 50V 0.22	1	
C7504		ECCF1H220JC	CERAMIC 50V 22P	1	
C7505		ECCF1H330JC	CERAMIC 50V 33P	1	
C7506		ECEA1AK101	ELECTROLYTIC 10V 100	1	
C7507		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C7508		ECEA1CKS330	ELECTROLYTIC 16V 33	1	
C7510		ECEA1HK100	ELECTROLYTIC 50V 10	1	
C7511		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C7512		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C7513		ECEA1HKR47	ELECTROLYTIC 50V 0.47	1	
C7514		ECQB1H183JH	MYLAR 50V 0.018	1	
C7515		ECKF1H331KB	CERAMIC 50V 330P	1	
C7516		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C7517		VCF0006	MYLAR 4700P	1	
C7519		ECQB1H102JH	MYLAR 50V 1000P	1	
C7520		ECEA1AKS220	ELECTROLYTIC 10V 22	1	
			CRYSTAL OSCILLATORS		
X7501		VSX0140		1	
X7502		VSX0094		1	
			SWITCHES		
SW7501		EVQQS307K		1	
SW7502		EVQQS307K		1	
SW7503		EVQQS307K		1	
SW7504		EVQQS307K		1	
SW7505		EVQQS307K		1	
SW7506		EVQQS307K		1	
SW7507		EVQQS307K		1	
SW7508		EVQQS307K		1	
SW7509		EVQQS307K		1	
SW7510		EVQQS307K		1	
SW7511		EVQQS307K		1	
SW7513		EVQQS307K		1	NV-G10E0,NV-G7E0

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
SW7514		EVQQS307K		1	NV-G10EO,NV-G7EO
SW7515		EVQQS307K		1	
SW7516		ESD14314		1	
SW7517		ESD14137A		1	NV-G10EO,NV-G7EO
SW7520		ESD14314		1	NV-G10EO,NV-G7EO
SW7521		ESD14314		1	
			TRANSFORMER		
T7501		EIR7QE007B		1	
			DISPLAY TUBE		
DP7501		VSL0091		1	
			CONNECTORS		
P7501		VJS1642	8P	1	
P7502		VJS1729	10P	1	
P7503		VJS1491	13P	1	
			MISCELLNEOUS		
		VGT0305	PRESET VR KNOB	1	NV-G10EO/B
		VGU2851	PRESET VR KNOB	1	NV-G7EO/B
		VJF0319	FIP HOLDER	1	
		VSC1586	SHIELD CASE	1	(TOP)
		VSC1623	SHIELD CASE	1	(MAIN)
		VSC1519	SHIELD CASE	1	(BOTTOM)
		VSC1520	SHIELD PLATE	1	
		VMZ0765	INSULATION CAP	1	
		KL02	SPACER	1	
		VGT0319	VR KNOB	1	FOR SW7516 NV-G10EO/B
		VGU2850	VR KNOB	1	FOR SW7516 NV-G7EO/B
	■	VEP03293A	INPUT SELECT C.B.A.		NV-G10EO,NV-G7EO
	■	VEP03293B			NV-G10EG,NV-G7EG
			INTEGRATED CIRCUITS		
IC3101		TA7347P		1	
IC3102		M5201L		1	
			TRANSISTORS		
Q3101		2SB641		1	(Q,R,S) OR 2SA937M
Q3102		2SD636		1	OR 2SC2021M
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
QR3101		DTC144EA		1	OR UN1213
QR3102		DTC144EA		1	OR UN1213
QR3103		DTC144EA		1	OR UN1213
			DIODES		
D3101		MA165		1	OR 1SS133,1SS119
D3102		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R3101		ERDS2TJ104	100K	1	
R3102		ERDS2TJ103	10K	1	
R3103		ERDS2TJ562	5.6K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3104		ERG1ANJ820	METAL 82	1	
R3105		ERDS2TJ750	75	1	
R3106		ERDS2TJ103	10K	1	
R3107		ERDS2TJ473	47K	1	
R3108		ERDS2TJ473	47K	1	
R3109		ERDS2TJ393	39K	1	
R3110		ERDS2TJ682	6.8K	1	
R3111		ERDS2TJ124	120K	1	
R3112		ERDS2TJ124	120K	1	
R3113		ERDS2TJ473	47K	1	
R3114		ERDS2TJ473	47K	1	
R3115		ERDS2TJ103	10K	1	
R3116		ERDS2TJ223	22K	1	
R3117		ERDS2TJ750	75	1	
R3119		ERDS2TJ562	5.6K	1	
R3120		ERDS2TJ223	22K	1	
R3121		ERDS2TJ222	2.2K	1	
R3122		ERDS2TJ242	2.4K	1	
R3123		ERDS2TJ242	2.4K	1	
R3124		ERDS2TJ101	100	1	
R3200		ERDS2TJ471	470	1	NV-G10EG
			CAPACITORS		
C3101		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C3102		ECEA1CK220	ELECTROLYTIC 16V 22	1	
C3103		ECEA1CK220	ELECTROLYTIC 16V 22	1	
C3104		ECEA1HK2R2	ELECTROLYTIC 50V 2.2	1	
C3105		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C3106		ECEA1CK470	ELECTROLYTIC 16V 47	1	
C3107		ECQB1H222JH	MYLAR 50V 2200P	1	
C3108		ECEA1CU470	ELECTROLYTIC 16V 47	1	
C3109		ECEA1HK2R2	ELECTROLYTIC 50V 2.2	1	
C3110		ECEA1HK3R3	ELECTROLYTIC 50V 3.3	1	
C3111		ECEA1HK2R2	ELECTROLYTIC 50V 2.2	1	
C3112		ECEA1CU330	ELECTROLYTIC 16V 33	1	
C3113		ECKF1H102KB	CERAMIC 50V 1000P	1	
C3115		ECKF1H102KB	CERAMIC 50V 1000P	1	
C3116		ECQB1H333JH	MYLAR 50V 1000P	1	
C3117		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C3119		ECCF1H470JC	CERAMIC 50V 47P	1	NV-G10EO
C3120		ECCF1H470JC	CERAMIC 50V 47P	1	NV-G10EO
C3121		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C3200		ECEA1CK470	ELECTROLYTIC 50V 0.01	1	NV-G10EG
			COILS		
L3101		VLQEL05F101K	100uH	1	
L3102		VLQEL06F471K	470uH	1	
L3200		VLQEL05F101K	100uH	1	NV-G10EG
			CONNECTOR		
P3101		VJP1239T	12P	1	
P3200		VJP1244T	4P	1	NV-G10EG
			MISCELLANEOUS		
		VJS1469	CONNECTOR 21P	1	
	■	VEP07324A	VPS INTERFACE C.B.A.		NV-G10EG
					NV-G7EG
			INTEGRATED CIRCUIT		
IC7001		MN15542VDH		1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
QR7001		DTC144EA		1	OR UN1213
QR7002		DTC124EA		1	OR UN1212
			DIODES		
D7001		MA165		1	
D7002		MA165		1	
D7003		MA165		1	
D7004		MA165		1	
D7005		MA165		1	
			RESISTORS		
R7001		ERDS2TJ104	100K	1	
R7003		ERDS2TJ103	10K	1	
			CAPACITORS		
C7001		ECCF1H330JC	CERAMIC 50V 33P	1	
C7002		ECCF1H330JC	CERAMIC 50V 33P	1	
C7003		ECKF1H103ZF	CERAMIC 50V 0.01	1	
			CRYSTAL OSCILLATORS		
X7001		EFOA4R0M03C1		1	
			CONNECTORS		
P7001		VJP1244T	4P	1	
P7002		VJP1244T	4P	1	
P7003		VJP1245T	5P	1	
			MISCELLANEOUS		
		VMP0927	C.B.A. SUPORT ANGLE	1	
	■	VEP03317A	DETAIL SW C.B.A.		
			SWITCH		
SW3601		ESD14314		1	
			CONNECTOR		
P3601		VJP1242T		1	
			MISCELLANEOUS		
		VGU3035	DETAIL SW KNOB	1	
	■	ENC87782	RF CONVERTER & ANTENNA		<!>
	■	ENC87784	BOOSTER UNIT		
	■	ENC87786			
			INTEGRATED CIRCUIT		
IC1		LA7051		1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			TRANSISTORS		
Q1		2SC3130		1	
Q2		2SC2570A		1	OR 2SC3355
Q3		2SC2570A		1	OR 2SC3355
Q4		2SB642		1	OR 2SB644
					NV-G10B,NV-G7B
			DIODES		
D1		MA1075	ZENER	1	
D2		1SS86		1	OR 1SS174,1SS87
D3		1SS86		1	OR 1SS174,1SS87
D4		MA161		1	OR MA166,1SS135
D5		MA161		1	OR MA166,1SS135
	■	VJB00F01	IR RECEIVER C.B.		
			DIODES		
D6204		PN313		1	OR PH302
			CONNECTOR		
P6209		VJP1400		1	
	■	VJB00G13	SUPPLY PHOTO Tr. C.B.		
			TRANSISTOR		
Q1502		PN150NV			
			CAPACITOR		
C1502		ECKF1H102KB	CERAMIC 50V 1000P	1	
			MISCELLANEOUS		
		VMD0645	PHOTO HOLDER	1	
	■	VJB00G23	LED C.B.		
			DIODE		
D1501		GL450	PHOTO DIODE	1	OR LN59
			MISCELLANEOUS		
		VMD0644	LED HOLDER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VJB00G10	MECHANISM CONNECTION C.B.		
			RESISTOR		
R1510		ERDS2TJ561	560	1	
			CAPACITOR		
C1510		ECEA50Z3R3	ELECTROLYTIC 50V 3.3	1	
			CONNECTORS		
P1511		VJP1245T	5P	1	
P1514		VJP1229T	2P	1	
P1515		VJP1229R	2P	1	
P1516		VJP1230T	3P	1	
	■	VJB00G15	CYLINDER HEATER C.B.		
			TRANSISTOR		
Q1501		2SD1275		1	
	■	VJB00G09	FRONT LOADING C.B.		
			TRANSISTOR		
Q1503		PN150NV		1	
			CAPACITOR		
C1503		ECKF1H102KB	CERAMIC 50V 1000P	1	
			MISCELLANEOUS		
		VMD0645	PHOTO HOLDER	1	
	■	VJB00G12	REEL SENSOR C.B.		
			PHOTO INTERRUPTER		
IC1501		ON2170		1	
			CONNECTOR		
P1518		VJP1229T	2P	1	
	■	VEP01213A	POWER TRANSFORMER C.B.A.		NV-G10EG,NV-G7EG
	■	VEP01212A			NV-G10B,NV-G7B
	■	VEP01212B			NV-G10EO,NV-G7EO
					<!>
			TRANSISTORS		
Q1101		2SA684		1	
Q1102		2SD1275		1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			DIODES		
D1101		MA4130M		1	
D1102		10E1		1	
D1103		11E2		1	
D1104		11E2		1	
D1105		MA4300L		1	
			RESISTORS		
R1101		ERDS2TJ562	5.6K	1	
R1102		ERDS2TJ152	1.5K	1	
R1103		ERD2FCJ8R2	FUSE 8.2	1	<!>
			CAPACITORS		
C1101		ECEA1CK100	ELECTOROLYTIC 16V 10	1	
C1102		ECEA1VU332	ELECTOROLYTIC 16V 3300	1	
C1103		ECEA2AU470	ELECTOROLYTIC 16V 47	1	
C1104		ECEA2AU470	ELECTOROLYTIC 16V 47	1	
C1105		ECKF1H223ZF	CERAMIC 50V 0.022	1	NV-G10EO,NV-G7EO
C1106		ECKF1H223ZF	CERAMIC 50V 0.022	1	NV-G10EO,NV-G7EO
C1107		ECKF1H223ZF	CERAMIC 50V 0.022	1	NV-G10EO,NV-G7EO
			COILS		
L1101		VTQ0046		1	NV-G10EG
L1102		VTQ0047		1	NV-G10EG
			CONNECTOR		
P1101		VJP1250T	10P	1	
			MISCELLANEOUS		
		SJT777	AC CORD CLAMPER	2	<!>
		TJC6320	FUSE HOLDER	6	<!>
		VMP0818	EARTH SPRING	1	
		VMP0856	EARTH ANGLE	1	
	■	VEP22034	IR REMOTE CONTROL C.B.A.		NV-G10EG/EO/B
			INTEGRATED CIRCUIT		
IC1		uPD6108C007		1	
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
Q1		UN1231		1	
			DIODE		
D1		LN66S	LED	1	OR SE303AY
			RESISTORS		
R1		ERDS2TJ562	5.6K	1	
R2		ERDS2TJ1R0	1	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			CAPACITORS		
C1		ECKF1H471KB	CERAMIC 50V 470P		
C2		ECKF1H471KB	CERAMIC 50V 470P		
C3		ECEA0JS101	ELECTROLYTIC 6.3V 100		
			CRYSTAL OSCILLATOR		
X1		CSB420PB6		1	
			SWITCHES		
SW1		ESD14126		1	
			MISCELLANEOUS		
		VJR0171	ELECTRODE (+)	1	
		VJR0172	ELECTRODE (-)	1	
	■	VEP22046A	IR REMOTE CONTROLLER C.B.A.		NV-G7B
			INTEGRATED CIRCUIT		
IC1		uPD6108G002		1	
			TRANSISTOR		
Q1		UN1231		1	
			DIODE		
D1		LN66S	LED	1	OR SE303AY
			RESISTORS		
R1		ERDS2TJ562	5.6K	1	
R2		ERDS2TJ1R0	1	1	
			CAPACITORS		
C1		ECKF1H471KB	CERAMIC 50V 470P	1	
C2		ECKF1H471KB	CERAMIC 50V 470P	1	
C3		ECEA0JK101	ELECTROLYTIC 6.3V 100	1	OR ECEA0JKS101
			CRYSTAL OSCILLATOR		
X1		CSB420PB6		1	OR EFOA420K06B1
			MISCELLANEOUS		
		VJR0217	ELECTRODE	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

3. VW-VPS Mechanical Replacement Parts List

Note: 1.* Be sure to make your orders of replacement parts according to this list.

2. IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1		VKM0691	TOP CASE	1	
2		VYK1253	BOTTOM CASE UNIT	1	
3		VQF1736	FAN BAK KIT	1	
4		VPG2693	PACKING CASE	1	
5		VPN1459	PAD	1	

4. VW-VPS Electrical Replacement Parts List

Note:1.* Be sure to make your orders of replacement parts according to this list.

2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

3.Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.

4.The P.C.Board units marked width'■'show below the main assembled parts.

Ref.No.		Part No.	Part Name & Description			Pcs	Remarks
	■	VEP06358A	MAIN C.B.A.				
			INTEGRATED CIRCUITS				
IC1		SAA5235				1	
IC2		SAF1134P				1	
			RESISTORS				
R1		ERDS2TJ273			27K	1	
R2		ERDS2TJ333			33K	1	
R3		ERDS2TJ103			10K	1	
R4		ERDS2TJ103			10K	1	
R5		ERDS2TJ104			100K	1	
R6		ERDS2TJ822			8.2K	1	
R7		ERDS2TJ101			100	1	
R8		ERDS2TJ101			100	1	
			CAPACITORS				
C1		ECEA1CK220	ELECTROLYTIC	16V	22	1	
C2		ECQB1H223JH	MYLAR	50V	0.022	1	
C3		ECQV1H683JZ	MYLAR	50V	0.068	1	
C4		ECEA1HKNR47	ELECTROLYTIC	50V	0.47	1	
C5		ECCF1H150JC	CERAMIC	50V	15P	1	
C6		ECQB1H102JH	MYLAR	50V	1000P	1	
C7		ECKF1H471KB	CERAMIC	50V	470P	1	
C8		ECQB1H223JH	MYLAR	50V	0.022	1	
C9		ECKF1H271KB	CERAMIC	50V	270P	1	
C10		ECCF1H101JC	CERAMIC	50V	100P	1	
C11		ECCF1H180JC	CERAMIC	50V	18P	1	
C12		ECCF1H820JC	CERAMIC	50V	82P	1	
C13		ECCF1H220JC	CERAMIC	50V	22P	1	
C14		ECKF1H102KB	CERAMIC	50V	1000P	1	
C15		ECQB1H223JH	MYLAR	50V	0.022	1	
C16		ECEA1EK4R7	ELECTROLYTIC	25V	4.7	1	
C17		ECEA1HK010	ELECTROLYTIC	50V	1	1	
			COIL				
L1		VLQ0193			10uH	1	
			CRYSTAL OSCILLATOR				
X1		VSX0173				1	
			CONNECTOR				
P1		VJP1234T			7P	1	
			MISCELLANEOUS				
		VEK2758	CONNECTOR			1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

5. VW-R7E Mechanical Replacement Parts List

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
1(1)		VYK1034	TOP CASE UNIT	1	
2(1)		VYK1248	BOTTOM CASE UNIT	1	
3(1)		VKF0609	BATTERY COVER	1	
4(1)		VKW0602	SMOKE BOARD	1	
5(1)		VSP0181	RUBBER CONTACT	1	
6(1)		VGU2566	BUTTON (1)	1	
7(1)		VGU2567	BUTTON (2)	1	
8(1)		VGU2568	BUTTON (3)	1	
9(1)		VGU2569	BUTTON (4)	1	
10(1)		VGU2570	BUTTON (5)	1	
11(1)		VGU2571	BUTTON (6)	1	
12(1)		VGU2572	BUTTON (7)	1	
13(1)		VGU2573	BUTTON (8)	1	
14(1)		VGU2574	BUTTON (9)	1	
15(1)		VGU2575	BUTTON (10/0)	1	
16(1)		VGU2576	BUTTON (./..)	1	
17(1)		VGU2554	BUTTON (VTR)	1	
18(1)		VGU2555	REC BUTTON (RED)	1	
19(1)		VGU2556	REC BUTTON	1	
20(1)		VGU2557	BUTTON (PLAY)	1	
21(1)		VGU2558	BUTTON (STOP)	1	
22(1)		VGU2559	BUTTON (STILL)	1	
23(1)		VGU2561	BUTTON (REW)	1	
24(1)		VGU2562	BUTTON (FF)	1	
25(1)		VGU1213	POWER BUTTON	1	
26(1)		VGQ0601	BUTTON HOLDER	1	
27(1)		VJR0170	ELECTRODE (COMMON)	1	
28(2)		VPG2671	PACKING CASE	1	
29(2)		VPN1452	CUSHION	1	

6. VW-R7E Electrical Replacement Parts List

Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4.The P.C.Board units marked width'■'show below the main assembled parts.

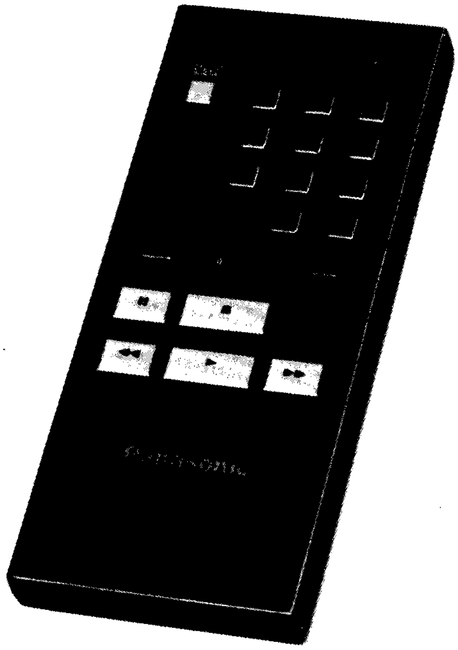
Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
	■	VEP22034	IR REMOTE CONTROL C.B.A.		
			INTEGRATED CIRCUIT		
IC1		uPD6108C007		1	
			COMBINATION PARTS		
			(TRANSISTORS & RESISTOR)		
Q1		UN1231		1	
			DIODE		
D1		LN66S	LED	1	OR SE303AY
			RESISTORS		
R1		ERDS2TJ562	5.6K	1	
R2		ERDS2TJ1R0	1	1	
			CAPACITORS		
C1		ECKF1H471KB	CERAMIC 50V 470P	1	
C2		ECKF1H471KB	CERAMIC 50V 470P	1	
C3		ECEA0JS101	ELECTROLYTIC 6.3V 100	1	
			CRYSTAL OSCILLATOR		
X1		CSB420PB6		1	
			SWITCHES		
SW1		ESD14126		1	
			MISCELLANEOUS		
		VJR0171	ELECTRODE (+)	1	
		VJR0172	ELECTRODE (-)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks

Wireless Remote Controller

VW-R7E

VEQ 0427



SPECIFICATIONS

Power:	DC 3 V
Weight:	80 g (Except Batteries)
Dimensions:	62 (W) × 15.7 (H) × 144 (D) mm

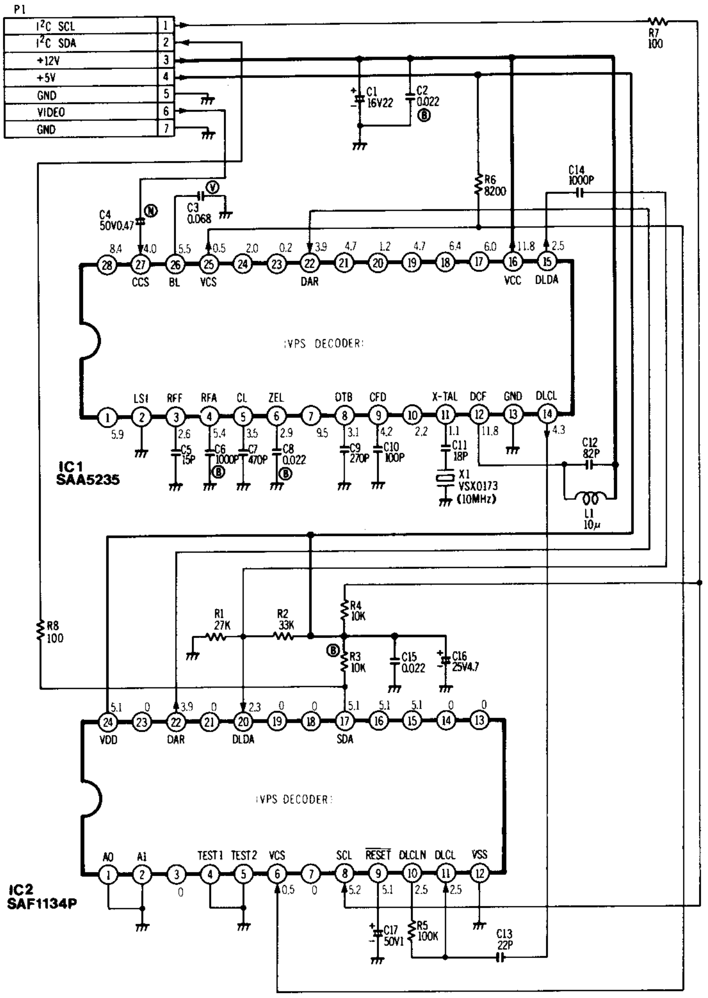
Weight and dimensions shown are approximate.

Specifications are subject to change without notice.

CONTENTS

1. CONTROLS AND COMPONENTS 1
2. SCHEMATIC DIAGRAM 2
3. CIRCUIT BOARD 2
4. EXPLODED VIEW (1) 3
5. EXPLODED VIEW (2) 4

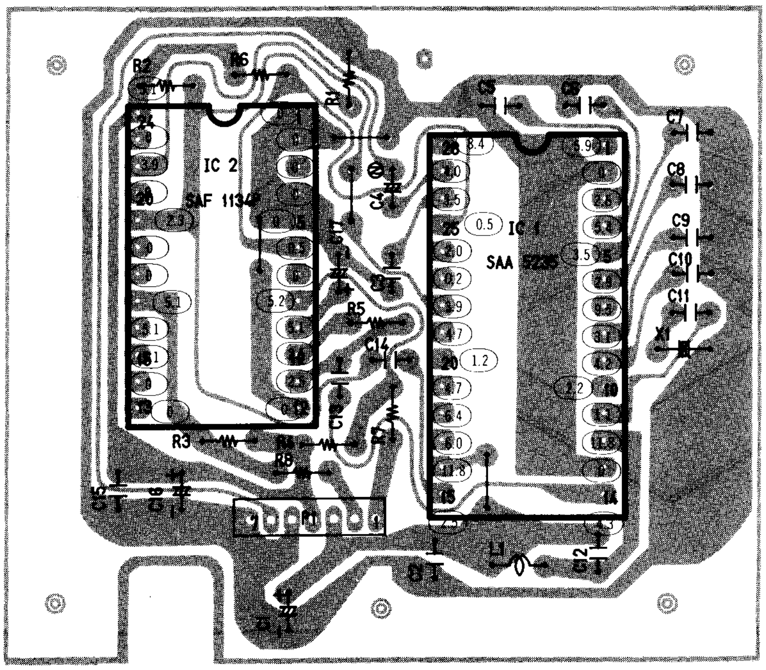
1. SCHEMATIC DIAGRAM


P1
I²C SCL
I²C SDA
+12V
+5V
GND
VIDEO
GND
R7
100
C1
16V22
C2
0.022
C14
1000P
R6
8200
C4
50V0.47
C3
0.068
CCS
BL
VCS
DAR
VCC
DLDA
VPS DECODER
LS1
RFF
RFA
CL
ZEL
DTB
CFD
X-TAL
DCF
GND
DLCL
C5
15P
C6
1000P
C7
470P
C8
0.022
C9
270P
C10
100P
C11
18P
X1
VSX0173
(10MHz)
C12
82P
L1
10μ
IC1
SAA5235
R1
27K
R2
33K
R4
10K
R3
10K
C15
0.022
C16
25V4.7
R8
100
VDD
DAR
DLDA
SDA
VPS DECODER
A0
A1
TEST1
TEST2
VCS
SCL
RESET
DLCLN
DLCL
VSS
IC2
SAF1134P
C17
50V1
R5
100K
C13
22P

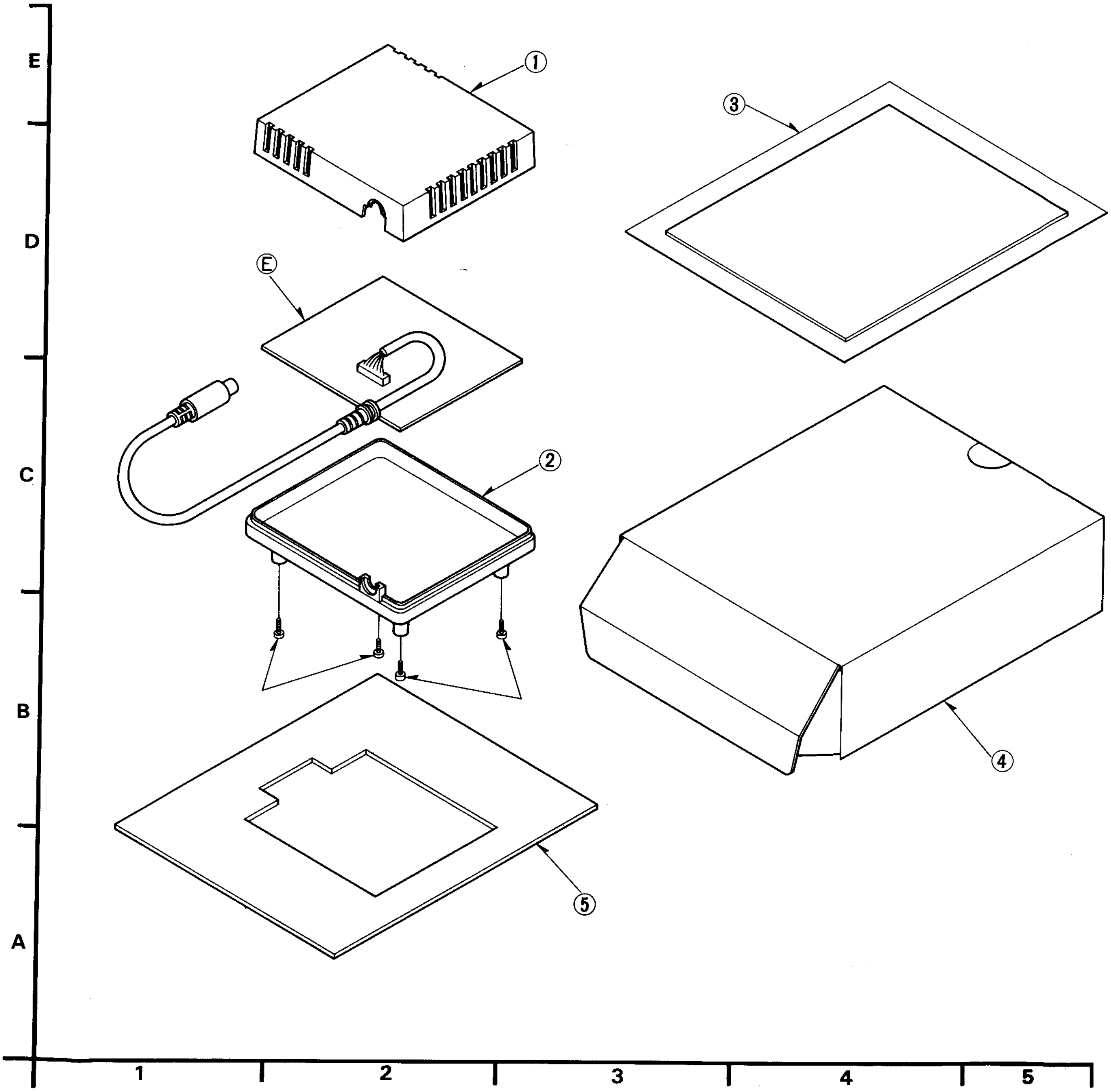
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

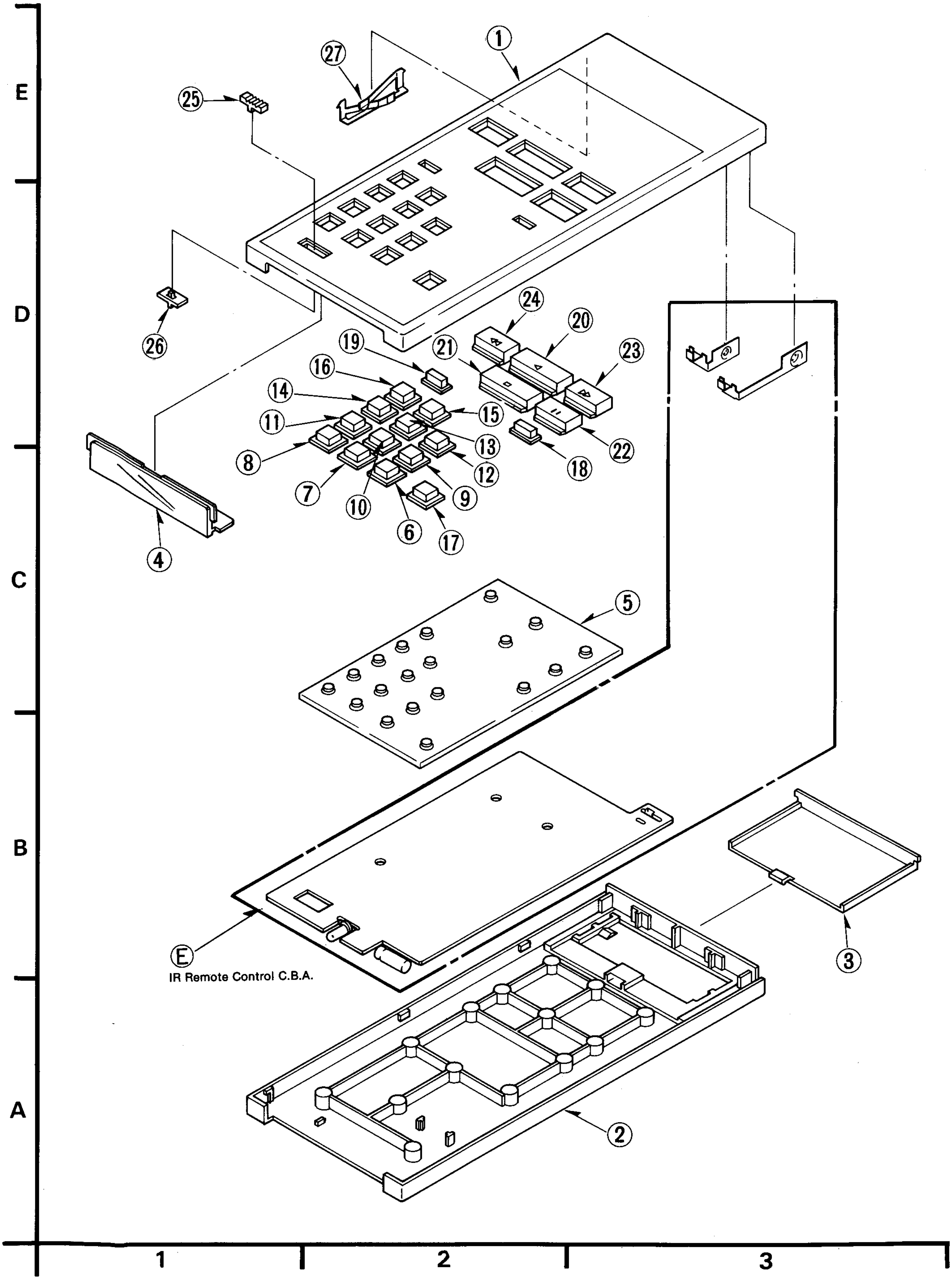
2. CIRCUIT BOARD (VEP06358A)


R2
R6
R4
IC 2
SAF 1134P
C4
C17
C3
R5
C14
C16
R3
R8
R1
C15
C17
C5
C6
C7
C8
C9
C10
C11
X1
IC 1
SAA 5235
L1
C12
C13
C1
C2

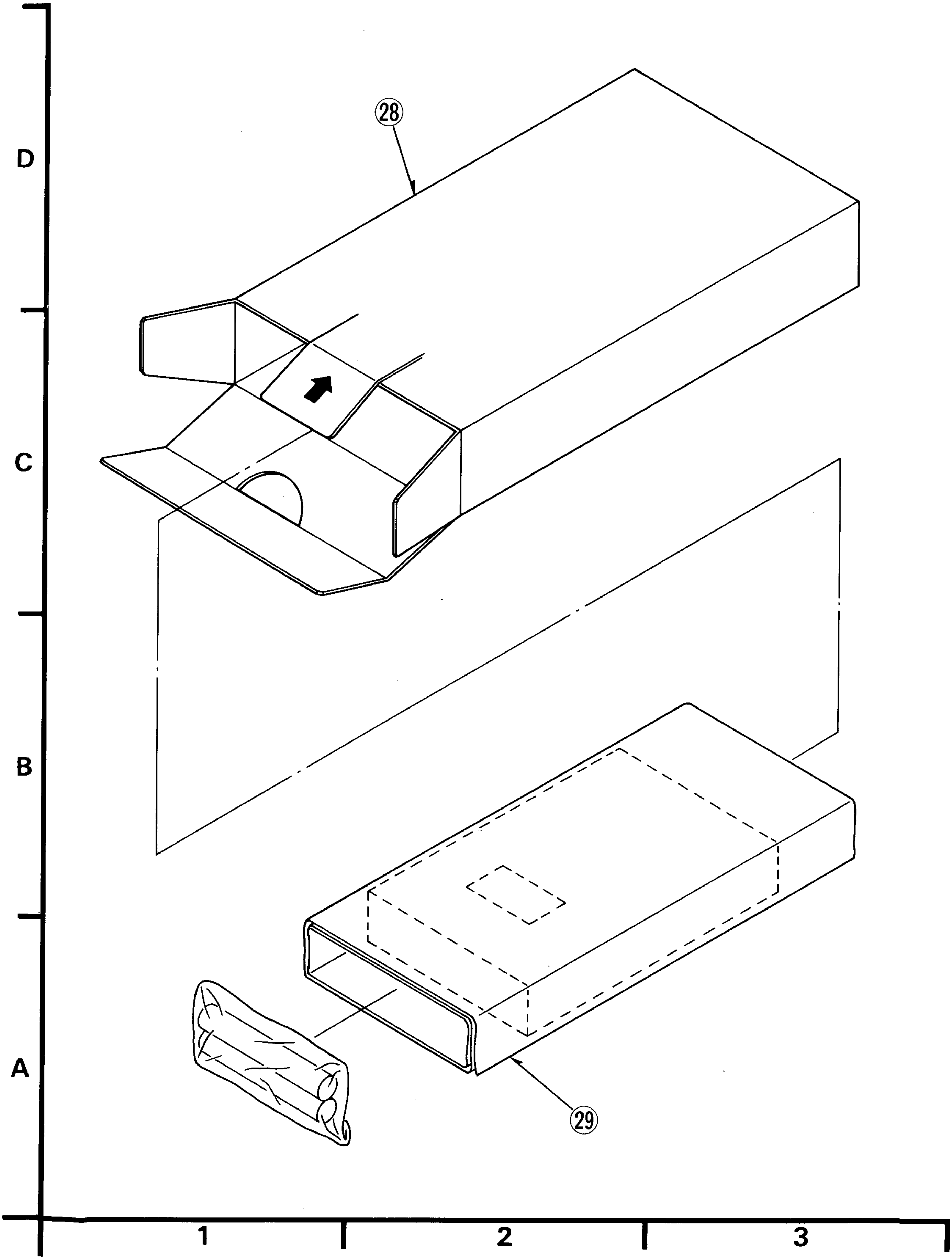
3. EXPLODED VIEW


E
D
C
B
A
①
③
Ⓔ
②
④
⑤
1
2
3
4
5

4. EXPLODED VIEW (1)


E
D
C
B
A
1
2
3
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉓
㉔
㉕
㉖
㉗
Ⓔ
IR Remote Control C.B.A.

5. EXPLODED VIEW (2)



28
29
D
C
B
A
1
2
3

VPS Adaptor

VW-VPS

SPECIFICATIONS

Power:	DC 12V
Weight:	90g
Dimensions:	70(W)×80(H)×32(D) mm

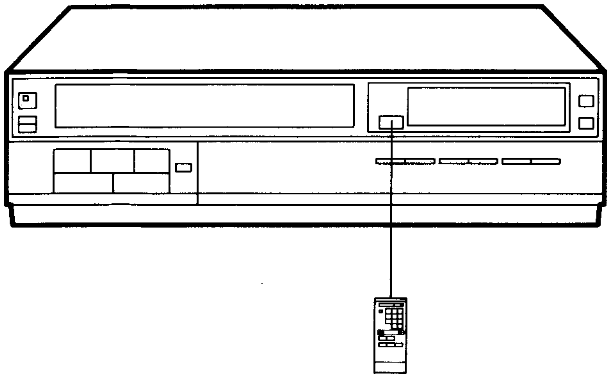
Weight and dimensions shown are approximate.

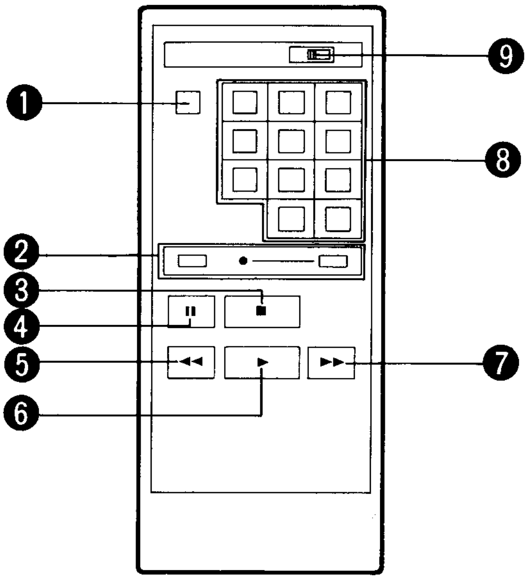
Specifications are subject to change without notice.

CONTENTS

1. SCHEMATIC DIAGRAM 1
2. CIRCUIT BOARD 1
3. EXPLODED VIEW 2

1. CONTROLS AND COMPONENTS





❶ **VTR On/Off**
For turning the VTR on and off.

❷ **Record Buttons (●)**
To start recording, push the both buttons simultaneously.

❸ **Stop Button (■)**

❹ **Pause/Still Button (❚❚)**

❺ **Rewind ◀◀/Review ◀◀ Button**
When this button is kept pushed during playback, the VTR changes over to the Review playback mode.

❻ **Play Button (▶)**

❼ **Fast Forward ▶▶ /Cue ▶▶ Button**
When this button is kept pushed during playback, the VTR changes over to the Cue playback mode.

❽ **Programme Position (Channel) Selector Buttons**

select channel	press button
1–9	1 – 9 respective channel
10	10
20	-/-- → 2 → 10
11–32	
for example 24	-/-- → 2 → 4

If more than 5 seconds pass between the first, second and third push, the channel will not be changed normally,

❾ **Remote Controller On/Off Switch**

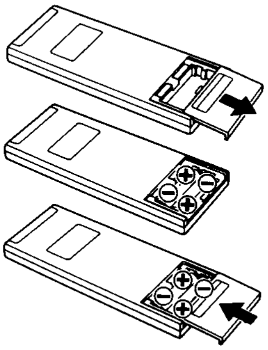
Power Source of the Infra-red Remote Controller

■ The Infra-red Remote Controller is powered by two IEC "R03" size batteries. The life of the batteries is about one year, however, it depends on the frequency of use. Inspect and if necessary, replace the batteries once a year.

CAUTION FOR BATTERY REPLACEMENT

- Load the new batteries with their polarities (⊕ and ⊖) aligned correctly.
- Do not apply heat to batteries, or internal shortcircuit may occur.
- If you do not intend to use the Remote Controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together. (Also never use an alkaline battery with a manganese battery.)

Load the batteries as follows:

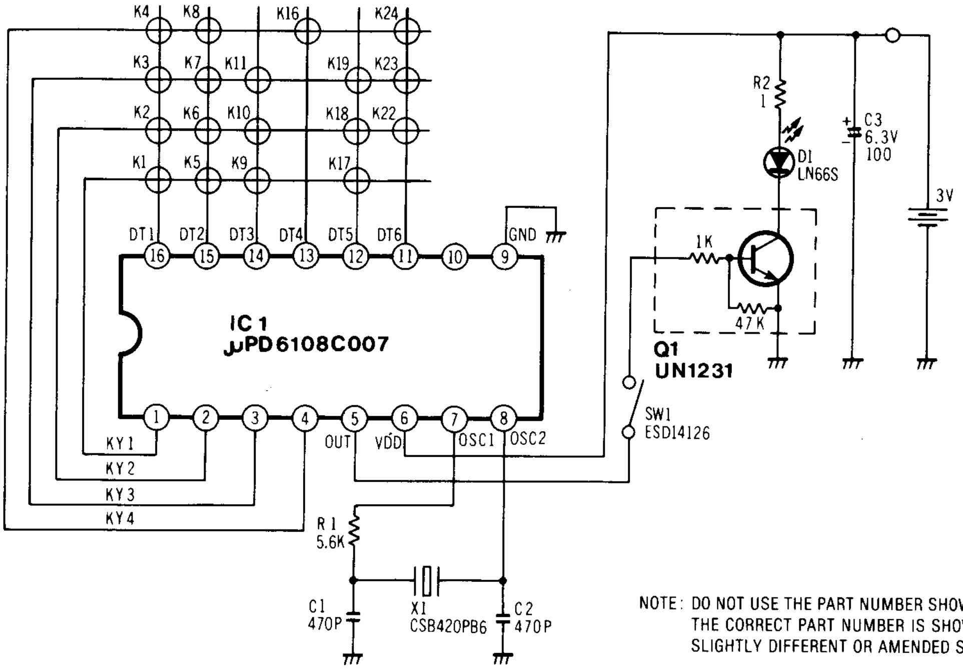


1. Remove the battery compartment lid.
2. Place two batteries in the battery compartment as indicated inside the battery compartment.
3. Replace the lid.

Note:

- The infrared beam should be transmitted directly at the Infrared Remote Control Receiver on the front of the VTR.
- Direct sunlight may interfere with the beam.
- The lightsensing angle of the Infra-red Remote Control Receiver window in the VTR is about 40°.
- The unit should be used within a range of about 7 meters from the front to the VTR.

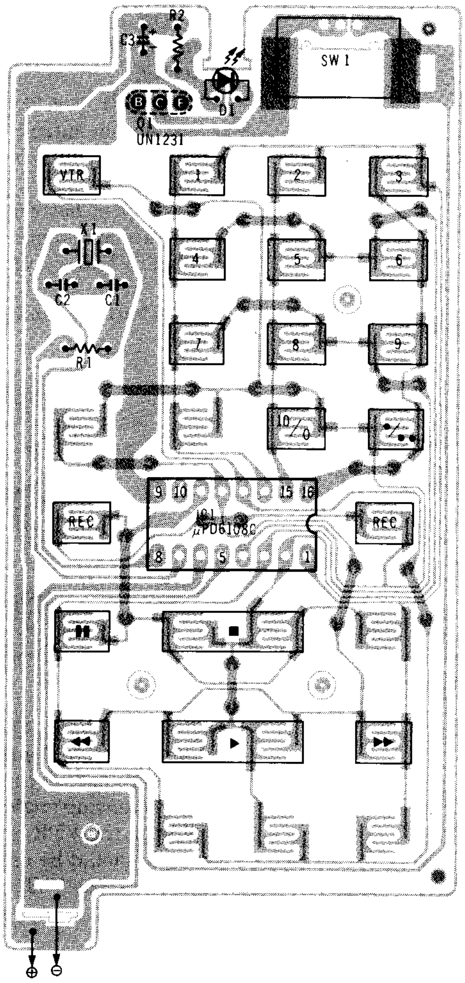
2. SCHEMATIC DIAGRAM


K4
K8
K16
K24
K3
K7
K11
K19
K23
K2
K6
K10
K18
K22
K1
K5
K9
K17
DT1
DT2
DT3
DT4
DT5
DT6
GND
IC 1
μPD6108C007
KY1
KY2
KY3
KY4
OUT
VDD
OSC1
OSC2
R 1
5.6K
C1
470P
X1
CSB420PB6
C2
470P
R2
1
D1
LN66S
C3
6.3V
100
3V
1K
47K
Q1
UN1231
SW1
ESD14126

KEY NO.	FUNCTION
1	CH 3
2	CH 6
3	CH 9
4	•/••
5	CH 2
6	CH 5
7	CH 8
8	0 / 10
9	CH 1
10	CH 4
11	CH 7
—	—
16	POWER ON/OFF
17	FF
18	PLAY
19	REW
—	—
22	STOP
23	STILL/PAUSE
24	REC

NOTE: DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3. CIRCUIT BOARD (VEP22034)


C3
R2
SW 1
D1
Q1
UN1231
VTR
1
2
3
4
5
6
7
8
9
10/0
X1
C2
C1
R1
IC1
μPD6108C
REC
REC
⊕
⊖

1. COMPARISON CHART

MODEL NO. :

This chart is described different part from the basic model NV-G10EG/EO to the new model NV-G10EV.

IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have special characteristics for safety. When replacing any of these components, use only the same type.

NV-G10EV Mechanical Replacement Parts (A)....Added, (C)....Changed, (D)....Deleted

Ref. No.	NV-G10EG Parts No.	NV-G10EV Parts No.	Pcs/Set	Parts Name & Description	Remarks
185(5)	VYP1608	VYP1578	1	TOP PANEL UNIT (SILVER)	(C)
185(5)	VYP1609	VYP1580	1	TOP PANEL UNIT (BLACK)	(C)
186(5)	VSC1541	VSC1628	1	BCI SHIELD PLATE	(C)
187(5)	VHD0059	VHD0059	7→5	SCREW	(C)
192(5)	VHD0252	VHD0252	4→2	SCREW	(C)
192(5)	VHD0253	VHD0253	4→2	SCREW	(C)
204(5)	VSC1587	----------------	1→0	POWER SHIELD PLATE	(D)
207(6)	VQF1703	VQF1704	1	FAN BAG KIT	(C) ⚠
211(6)	VPG2627	VPG2760	1	PACKING CASE (SILVER)	(C)
211(6)	VPG2628	VPG2761	1	PACKING CASE (BLACK)	(C)

Electrical Replacement Parts (A)....Added, (C)....Changed, (D)....Deleted

Ref. No.	NV-G10EO Parts No.	NV-G10EV Parts No.	Pcs/Set	Parts Name & Description	Remarks
	VEP01212B	VEP01243B	1	POWER TRANSFORMER C.B.A.	(C) ⚠
	VEP06333G	VEP06333AC	1	MAIN C.B.A.	(C) ⚠
	VEP07300D	VEP07323A	1	TIMER & CH SELECT C.B.A.	(C) Same as NV-G10EG
	VEP03293A	VEP03293B	1	INPUT SELECT C.B.A.	(C) Same as NV-G10EG
	----------------	VEP07324A	0→1	VPS INTERFACE C.B.A.	(A) Same as NV-G10EG
T1101	VTP0178	VTP0187	1	POWER TRANSFORMER	(C) ⚠
F1102	XBA2C12TBOA	XBA2C20TBOA	1	FUSE 250V 20A	(C) ⚠
	VEP01243B	POWERTRANSFORMER C.B.A.			⚠
R1104	----------------	ERDS2TJ100	0→1	RESISTOR	(A)
	----------------	VSC1446	0→1	HEAT SINK	(A) For Q1101
	VEP06333AC	MAIN C.B.A.			⚠
	----------------	VMZ0807	0→1	HEAT SINK BARRIER	(A) For IC1001

MODEL NO. :

This chart is described different part from the basic model NV-7EG/EO to the new model NV-G7EV.

IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have special characteristics for safety. When replacing any of these components, use only the same type.

NV-G7EV Mechanical Replacement Parts (A)....Added, (C)....Changed, (D)....Deleted

Ref. No.	NV-G7EG Parts No.	NV-G7EV Parts No.	Pcs/Set	Parts Name & Description	Remarks
185(5)	VYP1608	VYP1578	1	TOP PANEL UNIT (SILVER)	(C)
185(5)	VYP1609	VYP1580	1	TOP PANEL UNIT (BLACK)	(C)
186(5)	VSC1541	VSC1628	1	BCI SHIELD PLATE	(C)
187(5)	VHD0059	VHD0059	7→5	SCREW	(C)
192(5)	VHD0252	VHD0252	4→2	SCREW	(C)
192(5)	VHD0253	VHD0253	4→2	SCREW	(C)
204(5)	VSC1587	----------------	1→0	POWER SHIELD PLATE	(D)
207(6)	VQF1696	VQF1697	1	FAN BAG KIT	(C) ⚠
211(6)	VPG2616	VPG2762	1	PACKING CASE (SILVER)	(C)
211(6)	VPG2617	VPG2763	1	PACKING CASE (BLACK)	(C)

Electrical Replacement Parts (A)....Added, (C)....Changed, (D)....Deleted

Ref. No.	NV-G7EO Parts No.	NV-G7EV Parts No.	Pcs/Set	Parts Name & Description	Remarks
	VEP01212B	VEP01243B	1	POWER TRANSFORMER C.B.A.	(C) ⚠
	VEP06333N	VEP06333AE	1	MAIN C.B.A.	(C) ⚠
	VEP07300F	VEP07323B	1	TIMER & CH SELECT C.B.A.	(C) Same as NV-G7EG
	VEP03293A	VEP03293B	1	INPUT SELECT C.B.A.	(C) Same as NV-G7EG
	----------------	VEP07324A	0→1	VPS INTERFACE C.B.A.	(A) Same as NV-G7EG
T1101	VTP0178	VTP0187	1	POWER TRANSFORMER	(C) ⚠
F1102	XBA2C12TBOA	XBA2C20TBOA	1	FUSE 250V 20A	(C) ⚠
	VEP01243B	POWER TRANSFORMER C.B.A.			⚠
R1104	----------------	ERDS2TJ100	0→1	RESISTOR	(A)
	----------------	VSC1446	0→1	HEAT SINK	(A) For Q1101
	VEP06333AC	MAIN C.B.A.			⚠
	----------------	VMZ0807	0→1	HEAT SINK BARRIER	(A) For IC1001

10EV.

placing

Remarks
(C)
(C)
(C)
(C)
(C)
(C)
(D)
(C) ⚠
(C)
(C)

Remarks
(C) ⚠
(C) ⚠
(C) Same as NV-G10EG
(C) Same as NV-G10EG
(A) Same as NV-G10EG
(C) ⚠
(C) ⚠
⚠
(A)
(A) For Q1101
⚠
(A) For IC1001

MODEL NO. :

This chart is described different part from the basic model NV-7EG/EO to the new model NV-G7EV.

IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have special characteristics for safety. When replacing any of these components, use only the same type.

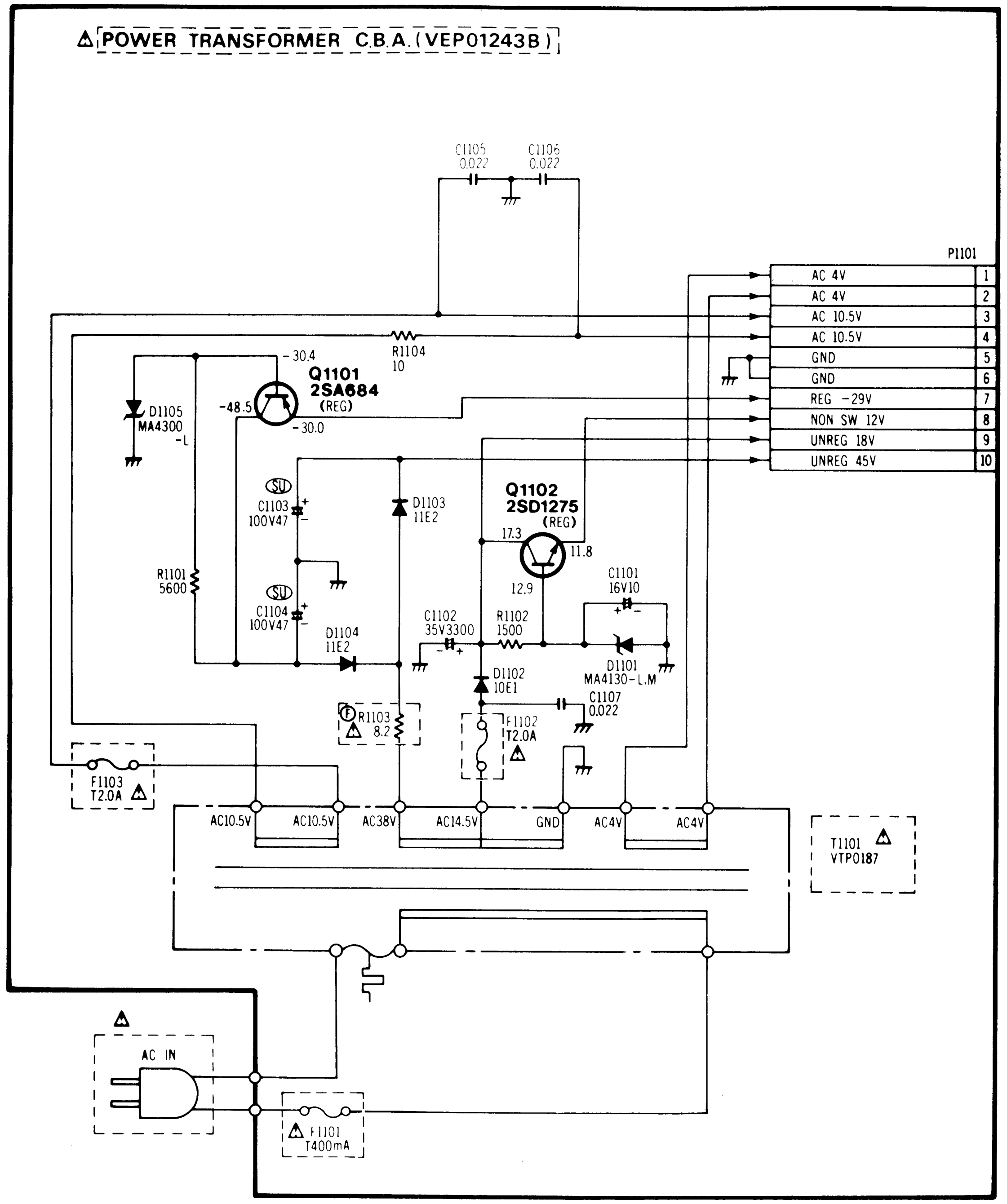
NV-G7EV Mechanical Replacement Parts (A)....Added, (C)....Changed, (D)....Deleted

Ref. No.	NV-G7EG Parts No.	NV-G7EV Parts No.	Pcs/Set	Parts Name & Description	Remarks
185(5)	VYP1608	VYP1578	1	TOP PANEL UNIT (SILVER)	(C)
185(5)	VYP1609	VYP1580	1	TOP PANEL UNIT (BLACK)	(C)
186(5)	VSC1541	VSC1628	1	BCI SHIELD PLATE	(C)
187(5)	VHD0059	VHD0059	7→5	SCREW	(C)
192(5)	VHD0252	VHD0252	4→2	SCREW	(C)
192(5)	VHD0253	VHD0253	4→2	SCREW	(C)
204(5)	VSC1587	-----------------	1→0	POWER SHIELD PLATE	(D)
207(6)	VQF1696	VQF1697	1	FAN BAG KIT	(C) ⚠
211(6)	VPG2616	VPG2762	1	PACKING CASE (SILVER)	(C)
211(6)	VPG2617	VPG2763	1	PACKING CASE (BLACK)	(C)

Electrical Replacement Parts (A)....Added, (C)....Changed, (D)....Deleted

Ref. No.	NV-G7EO Parts No.	NV-G7EV Parts No.	Pcs/Set	Parts Name & Description	Remarks
	VEP01212B	VEP01243B	1	POWER TRANSFORMER C.B.A.	(C) ⚠
	VEP06333N	VEP06333AE	1	MAIN C.B.A.	(C) ⚠
	VEP07300F	VEP07323B	1	TIMER & CH SELECT C.B.A.	(C) Same as NV-G7EG
	VEP03293A	VEP03293B	1	INPUT SELECT C.B.A.	(C) Same as NV-G7EG
	-----------------	VEP07324A	0→1	VPS INTERFACE C.B.A.	(A) Same as NV-G7EG
T1101	VTP0178	VTP0187	1	POWER TRANSFORMER	(C) ⚠
F1102	XBA2C12TBOA	XBA2C20TBOA	1	FUSE 250V 20A	(C) ⚠
	VEP01243B	POWER TRANSFORMER C.B.A.			⚠
R1104	-----------------	ERDS2TJ100	0→1	RESISTOR	(A)
	-----------------	VSC1446	0→1	HEAT SINK	(A) For Q1101
	VEP06333AC	MAIN C.B.A.			⚠
	-----------------	VMZ0807	0→1	HEAT SINK BARRIER	(A) For IC1001

2. POWER TRANSFORMER SCHEMATIC DIAGRAM

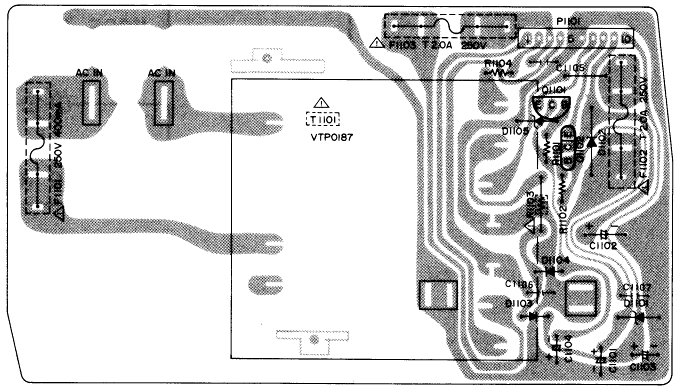

⚠ POWER TRANSFORMER C.B.A. (VEP01243B)
C1105 0.022
C1106 0.022
P1101
AC 4V 1
AC 4V 2
AC 10.5V 3
AC 10.5V 4
GND 5
GND 6
REG -29V 7
NON SW 12V 8
UNREG 18V 9
UNREG 45V 10
R1104 10
-30.4
Q1101 2SA684 (REG)
-48.5
-30.0
D1105 MA4300-L
C1103 100V47
D1103 11E2
Q1102 2SD1275 (REG)
17.3
11.8
12.9
R1101 5600
C1104 100V47
C1101 16V10
C1102 35V3300
R1102 1500
D1104 11E2
D1101 MA4130-L,M
D1102 10E1
C1107 0.022
R1103 ⚠ 8.2
F1102 T2.0A ⚠
F1103 T2.0A ⚠
AC10.5V
AC10.5V
AC38V
AC14.5V
GND
AC4V
AC4V
T1101 ⚠ VTP0187
⚠ AC IN
⚠ F1101 T400mA

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

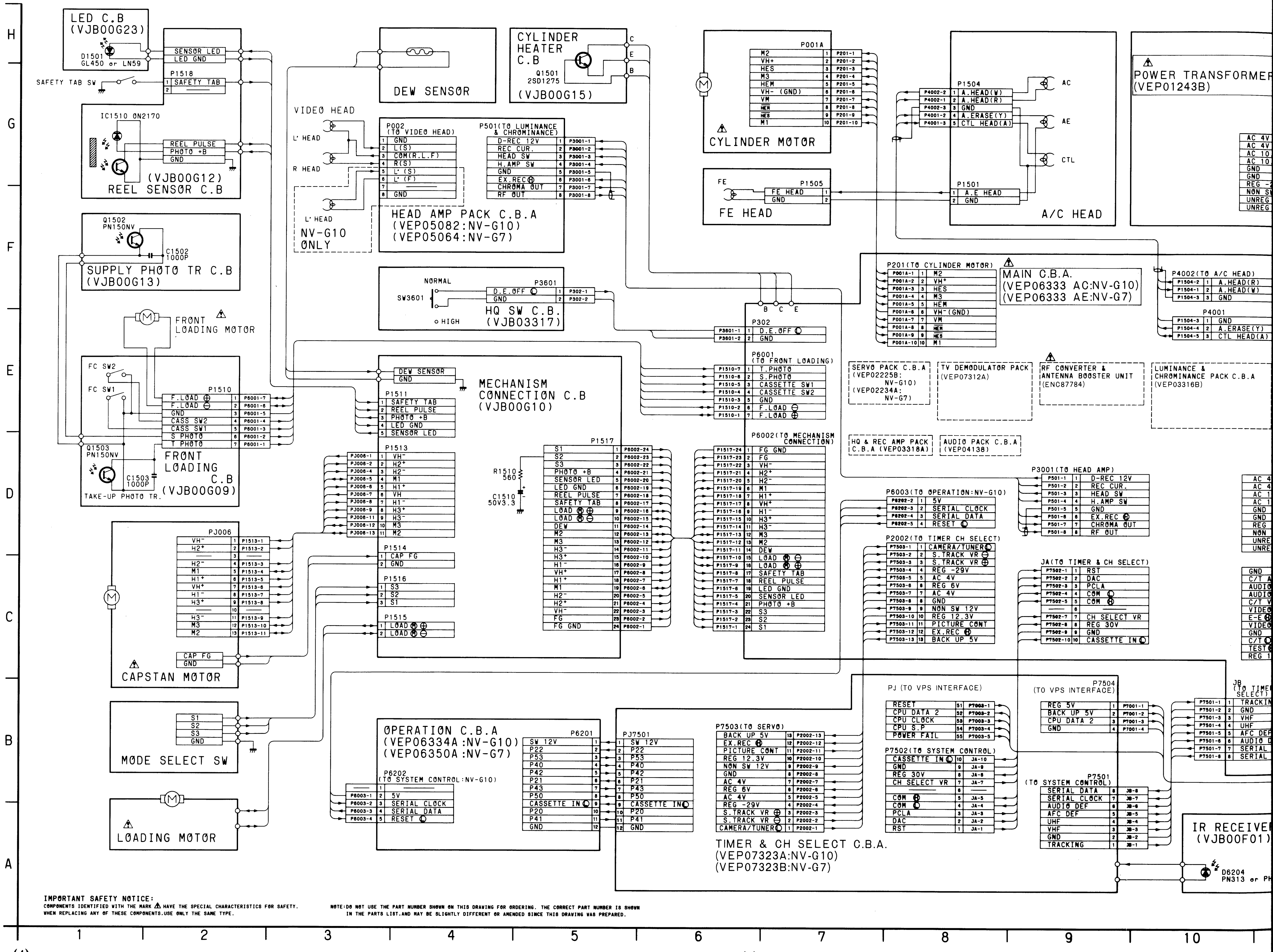
NOTE : THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

NOTE : DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. FOR THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

3. POWER TRANSFORMER CIRCUIT BOARD (VEP01243B)


⚠ F1103 T2.0A 250V
P1101
AC IN
AC IN
⚠ T1101
VTP0187
R1104
D1105
D1103
D1104
C1102
C1107
C1103

4. INTERCONNECTION SCHEMATIC DIAGRAM

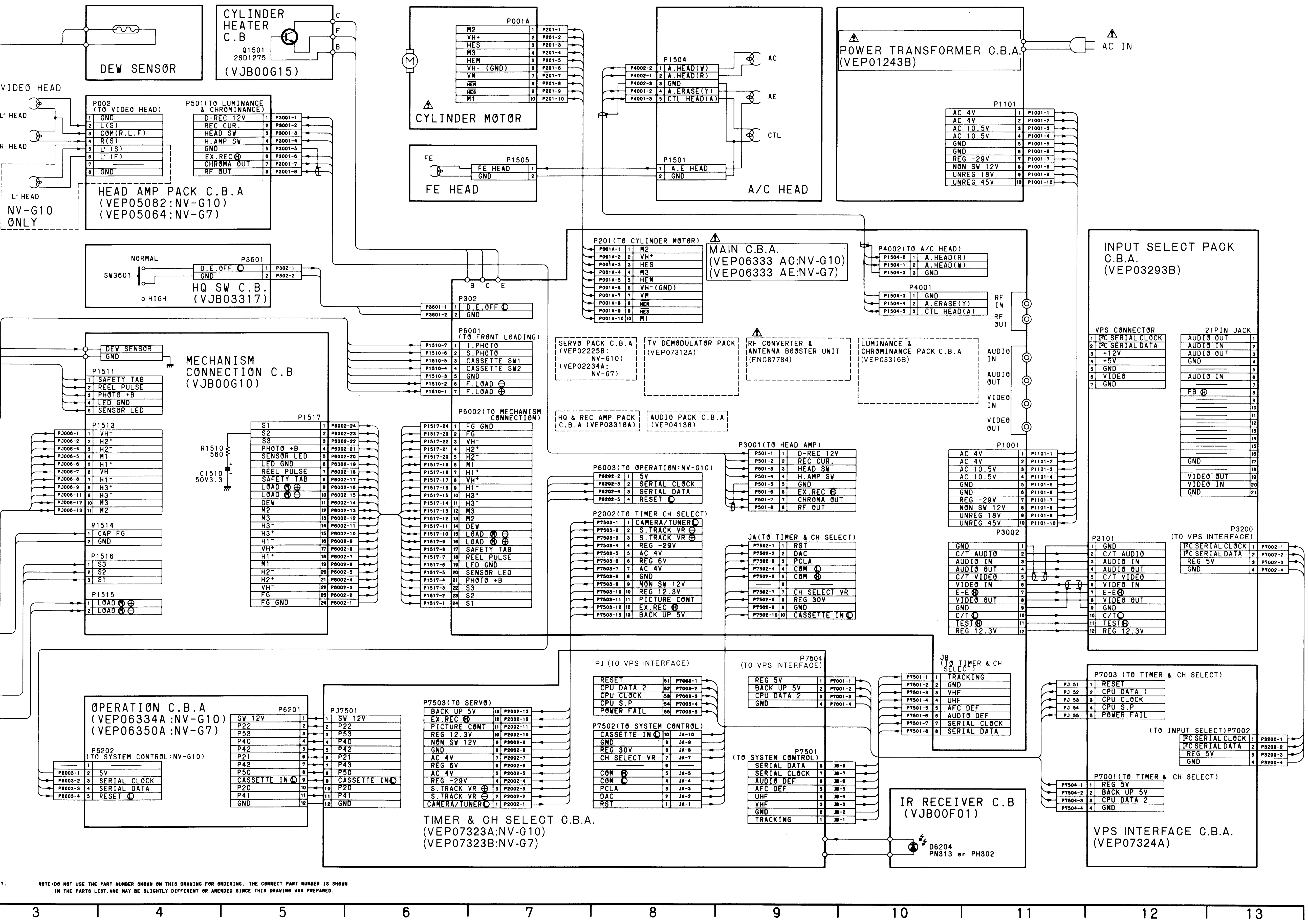


LED C.B (VJB00G23)
D1501 GL450 or LN59
SENSOR LED
LED GND
P1518
SAFETY TAB
SAFETY TAB SW
IC1510 ON2170
REEL PULSE
PHOTO +B
GND
(VJB00G12) REEL SENSOR C.B
Q1502 PN150NV
C1502 1000P
SUPPLY PHOTO TR C.B (VJB00G13)
FRONT LOADING MOTOR
FC SW2
FC SW1
P1510
F.LOAD ⊕
F.LOAD ⊖
CASS SW2
CASS SW1
S PHOTO
T PHOTO
Q1503 PN150NV
C1503 1000P
TAKE-UP PHOTO TR.
FRONT LOADING C.B (VJB00G09)
PJ006
CAP FG
CAPSTAN MOTOR
S1
S2
S3
MODE SELECT SW
LOADING MOTOR
DEW SENSOR
VIDEO HEAD
L' HEAD
R HEAD
NV-G10 ONLY
P002 (TO VIDEO HEAD)
P501 (TO LUMINANCE & CHROMINANCE)
D-REC 12V
REC CUR.
HEAD SW
H.AMP SW
EX.REC ⊕
CHROMA OUT
RF OUT
HEAD AMP PACK C.B.A (VEP05082:NV-G10) (VEP05064:NV-G7)
CYLINDER HEATER C.B
Q1501 2SD1275
(VJB00G15)
NORMAL
SW3601
HIGH
P3601
D.E.OFF
HQ SW C.B. (VJB03317)
MECHANISM CONNECTION C.B (VJB00G10)
P1511
P1513
P1514
P1516
P1515
P1517
R1510 560
C1510 50V3.3
OPERATION C.B.A (VEP06334A:NV-G10) (VEP06350A:NV-G7)
P6201
P6202 (TO SYSTEM CONTROL:NV-G10)
SERIAL CLOCK
SERIAL DATA
RESET
PJ7501
P001A
CYLINDER MOTOR
FE HEAD
P1505
P1504
P1501
A.HEAD(W)
A.HEAD(R)
A.ERASE(Y)
CTL HEAD(A)
A.E HEAD
AC
AE
CTL
A/C HEAD
POWER TRANSFORMER (VEP01243B)
P201 (TO CYLINDER MOTOR)
MAIN C.B.A. (VEP06333 AC:NV-G10) (VEP06333 AE:NV-G7)
P4002 (TO A/C HEAD)
P4001
P302
P6001 (TO FRONT LOADING)
P6002 (TO MECHANISM CONNECTION)
SERVO PACK C.B.A (VEP02225B: NV-G10) (VEP02234A: NV-G7)
TV DEMODULATOR PACK (VEP07312A)
RF CONVERTER & ANTENNA BOOSTER UNIT (ENC87784)
LUMINANCE & CHROMINANCE PACK C.B.A (VEP03316B)
HQ & REC AMP PACK C.B.A (VEP03318A)
AUDIO PACK C.B.A (VEP04138)
P3001 (TO HEAD AMP)
P6003 (TO OPERATION:NV-G10)
P2002 (TO TIMER CH SELECT)
JA (TO TIMER & CH SELECT)
PJ (TO VPS INTERFACE)
P7504 (TO VPS INTERFACE)
P7503 (TO SERVO)
P7502 (TO SYSTEM CONTROL)
P7501 (TO SYSTEM CONTROL)
JB (TO TIMER SELECT)
TIMER & CH SELECT C.B.A. (VEP07323A:NV-G10) (VEP07323B:NV-G7)
IR RECEIVER (VJB00F01)
D6204 PN313
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS.USE ONLY THE SAME TYPE.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST.AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

MATIC DIAGRAM


DEW SENSOR
CYLINDER HEATER C.B
Q1501 2SD1275
(VJB00G15)
C
E
B
VIDEO HEAD
L' HEAD
R HEAD
L' HEAD
NV-G10 ONLY
P002 (TO VIDEO HEAD)
1 GND
2 L(S)
3 COM(R.L.F)
4 R(S)
5 L' (S)
6 L' (F)
7
8 GND
P501(TO LUMINANCE & CHROMINANCE)
D-REC 12V
REC CUR.
HEAD SW
H.AMP SW
GND
EX.REC ⊕
CHROMA OUT
RF OUT
P3001-1 … P3001-8
HEAD AMP PACK C.B.A
(VEP05082:NV-G10)
(VEP05064:NV-G7)
P001A
M2
VH+
HES
M3
HEM
VH- (GND)
VM
HEM
HES
M1
P201-1 … P201-10
CYLINDER MOTOR
FE
P1505
FE HEAD
GND
FE HEAD
P1504
P4002-2 1 A.HEAD(W)
P4002-1 2 A.HEAD(R)
P4002-3 3 GND
P4001-2 4 A.ERASE(Y)
P4001-3 5 CTL HEAD(A)
AC
AE
CTL
P1501
1 A.E HEAD
2 GND
A/C HEAD
POWER TRANSFORMER C.B.A
(VEP01243B)
AC IN
P1101
AC 4V
AC 4V
AC 10.5V
AC 10.5V
GND
GND
REG -29V
NON SW 12V
UNREG 18V
UNREG 45V
P1001-1 … P1001-10
NORMAL
SW3601
HIGH
P3601
D.E.OFF
GND
P302-1
P302-2
HQ SW C.B.
(VJB03317)
P201(TO CYLINDER MOTOR)
MAIN C.B.A.
(VEP06333 AC:NV-G10)
(VEP06333 AE:NV-G7)
P4002(TO A/C HEAD)
1 A.HEAD(R)
2 A.HEAD(W)
3 GND
P4001
1 GND
2 A.ERASE(Y)
3 CTL HEAD(A)
RF IN
RF OUT
AUDIO IN
AUDIO OUT
VIDEO IN
VIDEO OUT
P302
1 D.E.OFF
2 GND
P6001 (TO FRONT LOADING)
1 T.PHOTO
2 S.PHOTO
3 CASSETTE SW1
4 CASSETTE SW2
5 GND
6 F.LOAD ⊕
7 F.LOAD ⊖
SERVO PACK C.B.A (VEP02225B: NV-G10) (VEP02234A: NV-G7)
TV DEMODULATOR PACK (VEP07312A)
RF CONVERTER & ANTENNA BOOSTER UNIT (ENC87784)
LUMINANCE & CHROMINANCE PACK C.B.A (VEP03316B)
HQ & REC AMP PACK C.B.A (VEP03318A)
AUDIO PACK C.B.A (VEP04138)
P6002(TO MECHANISM CONNECTION)
1 FG GND
2 FG
3 VH-
4 H2+
5 H2-
6 M1
7 H1+
8 VH+
9 H1-
10 H3+
11 H3-
12 M3
13 M2
14 DEW
15 LOAD ⊕⊖
16 LOAD ⊕⊖
17 SAFETY TAB
18 REEL PULSE
19 LED GND
20 SENSOR LED
21 PHOTO +B
22 S3
23 S2
24 S1
DEW SENSOR
GND
MECHANISM CONNECTION C.B
(VJB00G10)
P1511
1 SAFETY TAB
2 REEL PULSE
3 PHOTO +B
4 LED GND
5 SENSOR LED
P1513
1 VH-
2 H2+
3 H2-
4 M1
5 H1+
6 VH
7 H1-
8 H3+
9 H3-
10 M3
11 M2
P1514
1 CAP FG
2 GND
P1516
1 S3
2 S2
3 S1
P1515
1 LOAD ⊖⊕
2 LOAD ⊕⊕
R1510 560
C1510 50V3.3
P1517
S1
S2
S3
PHOTO +B
SENSOR LED
LED GND
REEL PULSE
SAFETY TAB
LOAD ⊕⊖
LOAD ⊕⊖
DEW
M2
M3
H3-
H3+
H1-
VH+
H1+
M1
H2-
H2+
VH-
FG
FG GND
P6002-24 … P6002-1
P3001(TO HEAD AMP)
1 D-REC 12V
2 REC CUR.
3 HEAD SW
4 H.AMP SW
5 GND
6 EX.REC ⊕
7 CHROMA OUT
8 RF OUT
P1001
1 AC 4V
2 AC 4V
3 AC 10.5V
4 AC 10.5V
5 GND
6 GND
7 REG -29V
8 NON SW 12V
9 UNREG 18V
10 UNREG 45V
P6003(TO OPERATION:NV-G10)
1 5V
2 SERIAL CLOCK
3 SERIAL DATA
4 RESET
P2002(TO TIMER CH SELECT)
1 CAMERA/TUNER
2 S.TRACK VR ⊖
3 S.TRACK VR ⊕
4 REG -29V
5 AC 4V
6 REG 6V
7 AC 4V
8 GND
9 NON SW 12V
10 REG 12.3V
11 PICTURE CONT
12 EX.REC ⊕
13 BACK UP 5V
JA(TO TIMER & CH SELECT)
1 RST
2 DAC
3 PCLA
4 COM
5 COM
6
7 CH SELECT VR
8 REG 30V
9 GND
10 CASSETTE IN
P3002
GND
C/T AUDIO
AUDIO IN
AUDIO OUT
C/T VIDEO
VIDEO IN
E-E ⊕
VIDEO OUT
GND
C/T
TEST ⊕
REG 12.3V
INPUT SELECT PACK C.B.A.
(VEP03293B)
VPS CONNECTOR
1 I²C SERIAL CLOCK
2 I²C SERIAL DATA
3 +12V
4 +5V
5 GND
6 VIDEO
7 GND
21PIN JACK
AUDIO OUT
AUDIO IN
AUDIO OUT
GND
AUDIO IN
PB ⊕
GND
VIDEO OUT
VIDEO IN
GND
P3101
1 GND
2 C/T AUDIO
3 AUDIO IN
4 AUDIO OUT
5 C/T VIDEO
6 VIDEO IN
7 E-E ⊕
8 VIDEO OUT
9 GND
10 C/T
11 TEST ⊕
12 REG 12.3V
P3200 (TO VPS INTERFACE)
1 I²C SERIAL CLOCK
2 I²C SERIAL DATA
3 REG 5V
4 GND
OPERATION C.B.A
(VEP06334A:NV-G10)
(VEP06350A:NV-G7)
P6201
SW 12V
P22
P53
P40
P42
P21
P43
P50
CASSETTE IN
P20
P41
GND
P6202 (TO SYSTEM CONTROL:NV-G10)
1
2 5V
3 SERIAL CLOCK
4 SERIAL DATA
5 RESET
PJ7501
P7503(TO SERVO)
BACK UP 5V
EX.REC ⊕
PICTURE CONT
REG 12.3V
NON SW 12V
GND
AC 4V
REG 6V
AC 4V
REG -29V
S.TRACK VR ⊕
S.TRACK VR ⊖
CAMERA/TUNER
PJ (TO VPS INTERFACE)
RESET
CPU DATA 2
CPU CLOCK
CPU S.P
POWER FAIL
P7504 (TO VPS INTERFACE)
REG 5V
BACK UP 5V
CPU DATA 2
GND
P7502(TO SYSTEM CONTROL)
CASSETTE IN
GND
REG 30V
CH SELECT VR
COM
COM
PCLA
DAC
RST
P7501 (TO SYSTEM CONTROL)
SERIAL DATA
SERIAL CLOCK
AUDIO DEF
AFC DEF
UHF
VHF
GND
TRACKING
JB (TO TIMER & CH SELECT)
1 TRACKING
2 GND
3 VHF
4 UHF
5 AFC DEF
6 AUDIO DEF
7 SERIAL CLOCK
8 SERIAL DATA
TIMER & CH SELECT C.B.A.
(VEP07323A:NV-G10)
(VEP07323B:NV-G7)
IR RECEIVER C.B
(VJB00F01)
D6204
PN313 or PH302
P7003 (TO TIMER & CH SELECT)
1 RESET
2 CPU DATA 1
3 CPU CLOCK
4 CPU S.P
5 POWER FAIL
(TO INPUT SELECT)P7002
1 I²C SERIAL CLOCK
2 I²C SERIAL DATA
3 REG 5V
4 GND
P7001(TO TIMER & CH SELECT)
1 REG 5V
2 BACK UP 5V
3 CPU DATA 2
4 GND
VPS INTERFACE C.B.A.
(VEP07324A)
3
4
5
6
7
8
9
10
11
12
13

Y.

NOTE:DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST.AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

5. ELECTRICAL REPLACEMENT PARTS LIST

Note:1.* Be sure to make your orders of replacement parts according to this list.

2.IMPORTANT SAFETY NOTICE
Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.

3.Unless otherwise specified,
All resistors are in OHMS ,K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.

4.The P.C.Board units marked width'■'show below the main assembled parts.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			THIS PARTS LIST CONTAINS		
			THE ELECTRICAL REPLACEMENT		
			PARTS DIFFERENT FROM THAT		
			OF NV-G10EO,NV-G7EO.		
		VEP06333AC	MAIN C.B.A.	1	INCLUDING THE SERVO
			(POWER SUPPLY,SERVO,AUDIO,		PACK C.B.A.
			SYSTEM CONTROL,LUMINANCE &		(VEP02225B),
			CHROMINANCE,TUNER,		LUMINANCE &
			TV DEMODULATOR)		CHROMINANCE PACK
					C.B.A.(VEP03316A),
					AUDIO PACK C.B.A.
					(VEP04138),
					TV DEMODULATOR PACK
					C.B.A.(VEP07312A),
					REC AMP PACK C.B.A.
					(VEP03318A).
					NV-G10EV <!>
		VEP06333AE	MAIN C.B.A.	1	INCLUDING THE SERVO
			(POWER SUPPLY,SERVO,AUDIO,		PACK C.B.A.
			SYSTEM CONTROL,LUMINANCE &		(VEP02234A),
			CHROMINANCE,TUNER,		LUMINANCE &
			TV DEMODULATOR)		CHROMINANCE PACK
					C.B.A.(VEP03316B),
					AUDIO PACK C.B.A.
					(VEP04138),
					TV DEMODULATOR PACK
					C.B.A.(VEP07312A),
					REC AMP PACK C.B.A.
					(VEP03318A).
					NV-G7EV <!>
		VEP01243B	POWER TRANSFORMER C.B.A.	1	<!>
T1101		VTP0187	POWER TRANSFORMER	1	<!>
F1102		XBA2C20TB0A	FUSE 250V 20A	1	<!>
	■	VEP06333AC	MAIN C.B.A.		INCLUDING THE
	■	VEP06333AE	(POWER SUPPLY,SERVO,AUDIO,		SERVO PACK C.B.A.
			SYSTEM CONTROL,LUMINANCE &		(VEP02225B,VEP02234A)
			CHROMINANCE,TUNER,TV		,LUMINANCE &
			DEMODULATOR)		CHROMINANCE PACK
					(VEP03316B)
					AUDIO PACK C.B.A.
					(VEP04138),
					TV DEMODULATOR PACK
					C.B.A.(VEP07312A)
			(POWER SUPPLY SECTION)		REC AMP PACK C.B.A.
					(VEP03318A) <!>
			INTEGRATED CIRCUIT		
IC1001		STK5331		1	
			TRANSISTOR		
Q1001		2SC1384		1	(R)
			DIODES		
D1001		ERA15-01		1	
D1002		ERA15-01		1	
D1003		ERA15-01		1	
D1004		ERA15-01		1	
D1005		ERA15-01		1	
D1006		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R1001		ERG12ANJ182	METAL 1/2W 1.8K	1	
R1002		ERDS2TJ682	6.8K	1	
R1003		ERDS2TJ103	10K	1	
R1004		ERDS2TJ562	5.6K	1	
			CAPACITORS		
C1001		ECEA1EU332	ELECTROLYTIC 25V 3300	1	
C1002		ECEA1VU101	ELECTROLYTIC 35V 100	1	
			CONNECTOR		
P1001		VJP1261	10P	1	
			(SERVO SECTION)		
			INTEGRATED CIRCUIT		
IC2001		AN3821K		1	
			COMBINATION PARTS		
			(TRANSISTOR & RESISTOR)		
QR2001		DTC144EA		1	OR UN1213
QR2002		DTA144EA		1	OR UN1113
			DIODE		
D2001		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R2004		EROS2CKG1203	METAL 120K	1	
R2005		ERDS2TJ102	1K	1	
R2006		ERX12SJR82	METAL 1/2W 0.82	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2007		ERDS2TJ224	220K	1	
R2008		ERDS2TJ224	220K	1	
R2209		ERDS2TJ224	220K	1	
R2010		EROS2CKG2201	METAL 2.2K	1	
R2011		EROS2CKG1302	METAL 1.3K	1	
R2012		ERQ12HJ6R8P	FUSE 1/2W 6.8	1	<!>
R2013		ERDS2TJ181	180	1	
R2014		ERDS2TJ473	47K	1	
R2017		ERDS2TJ222	2.2K	1	
R2021		ERDS2TJ561	560	1	
R2022		ERDS2TJ101	100	1	NV-G10EV
			VARIABLE RESISTORS		
VR2001		EVN61AA00B54	50K	1	
VR2002		EVN61AA00B15	100K	1	
VR2011		EVN61AA00B15	100K	1	NV-G10EV
			CAPACITORS		
C2001		ECEA1VU4R7	ELECTROLYTIC 35V 4.7	1	
C2002		ECEA1VU4R7	ELECTROLYTIC 35V 4.7	1	
C2003		ECEA1VU4R7	ELECTROLYTIC 35V 4.7	1	
C2004		ECQB1H822KH	MYLAR 50V 8200P	1	
C2005		ECQB1H822KH	MYLAR 50V 8200P	1	
C2006		ECQB1H822KH	MYLAR 50V 8200P	1	
C2007		ECQV1H104JZ	MYLAR 50V 0.1	1	
C2008		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C2009		ECEA1HK0R1	ELECTROLYTIC 50V 0.1	1	
C2010		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C2011		ECKF1H103ZF	CERAMIC 50V 0.01	1	
			FUSE		
F2001		VSF0043	THERMAL FUSE	1	<!>
			CONNECTOR		
P2002		VJS1475	13P	1	
			(AUDIO SECTION)		
			RESISTORS		
R4001		ERDS2TJ100	10	1	
R4002		ERDS2TJ333	33K	1	
R4005		ERDS2TJ183	18K	1	
R4006		ERDS2TJ222	2.2K	1	
			VARIABLE RESISTORS		
VR4001		EVN61AA00B13	1K	1	
VR4002		EVN61AA00B25	200K	1	
			CAPACITORS		
C4001		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C4002		ECKF1H472ZF	CERAMIC 50V 4700P	1	
C4101		ECKF1H471KB	CERAMIC 50V 470P	1	
			CONNECTORS		
P4001		VJP1254	3P	1	
P4002		VJP1254	3P	1	
			(SYSTEM CONTROL SECTION)		

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			INTEGRATED CIRCUITS		
IC6001		MN15342VQH		1	NV-G10EV
IC6001		MN15342VDC		1	NV-G7EV
IC6002		AN6914		1	OR uPC393C
IC6003		BA6248		1	OR M54649L
IC6004		MN1280R		1	
			TRANSISTORS		
Q6002		2SD636		1	(Q,R,S) OR 2SC2021M
Q6004		2SD638		1	(S) OR 2SD1458
Q6005		2SB790		1	(Q,R,S)
Q6006		2SB790		1	(Q,R,S)
Q6007		2SD636		1	(Q,R,S) OR 2SC2021M
			COMBINATION PARTS		
			(TRANSISTOR & RESISTOR)		
QR6001		DTC114EA		1	OR UN1211
QR6002		DTC124EA		1	OR UN1212
QR6003		DTA124EA		1	OR UN1112
QR6005		DTC114EA		1	OR UN1211
			DIODES		
D6001		MA165		1	OR 1SS133,1SS119
D6005		MA165		1	OR 1SS133,1SS119
D6007		ERA15-01		1	
D6008		MA165		1	OR 1SS133,1SS119
D6009		MA165		1	OR 1SS133,1SS119
D6011		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R6001		ERDS2TJ683	68K	1	
R6002		ERDS2TJ103	10K	1	
R6003		ERDS2TJ184	180K	1	
R6004		ERDS2TJ223	22K	1	
R6005		ERDS2TJ223	22K	1	
R6006		ERDS2TJ223	22K	1	
R6007		ERDS2TJ824	820K	1	
R6008		ERDS2TJ105	1M	1	
R6009		ERDS2TJ122	1.2K	1	
R6010		ERDS2TJ181	180	1	
R6011		ERDS2TJ152	1.5K	1	
R6012		ERDS2TJ221	220	1	
R6013		ERDS2TJ223	22K	1	
R6014		ERDS2TJ563	56K	1	
R6015		ERDS2TJ221	220	1	
R6017		ERDS2TJ153	15K	1	
R6018		ERDS2TJ153	15K	1	
R6019		ERDS2TJ562	5.6K	1	
R6020		ERDS2TJ562	5.6K	1	
R6021		ERDS2TJ562	5.6K	1	
R6022		ERDS2TJ103	10K	1	
R6023		ERDS2TJ332	3.3K	1	
R6024		ERDS2TJ391	390	1	
R6025		ERDS2TJ103	10K	1	
R6027		ERDS2TJ101	100	1	
R6030		ERDS2TJ681	680	1	
R6031		ERDS2TJ332	3.3K	1	
R6032		ERDS2TJ681	680	1	
R6034		ERD2FCG180	FUSE 18	1	<!>
R6038		ERDS2TJ562	5.6K	1	
R6039		ERDS2TJ332	3.3K	1	
R6041		ERDS2TJ152	1.5K	1	
R6043		ERDS2TJ103	10K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6044		ERDS2TJ472	4.7K	1	
R6045		ERDS2TJ472	4.7K	1	
R6046		ERDS2TJ562	5.6K	1	
R6049		ERDS2TJ103	10K	1	
R6053		ERDS1VJ470	47	1	
R6054		ERDS2TJ101	100	1	
R6055		ERDS2TJ561	100	1	
R6056		ERDS2TJ101	100	1	
R6057		ERDS2TJ561	100	1	
R6058		ERDS2TJ561	560	1	
R6059		ERDS2TJ222	2.2K	1	
R6060		ERDS2TJ222	2.2K	1	
R6061		ERDS2TJ222	2.2K	1	
			CAPACITORS		
C6002		ECEA0JK101	ELECTROLYTIC 6.3V 100	1	
C6003		ECKF1H681KB	CERAMIC 50V 680P	1	
C6004		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C6005		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C6006		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C6007		ECCF1H330JC	CERAMIC 50V 33P	1	
C6008		ECCF1H330JC	CERAMIC 50V 33P	1	
C6009		ECEA1HKN010	ELECTROLYTIC 50V 1	1	
C6010		ECEA1HKN010	ELECTROLYTIC 50V 1	1	
C6011		ECEA1HK2R2	ELECTROLYTIC 50V 2.2	1	
C6013		ECKF1H221KB	CERAMIC 50V 220	1	
C6014		ECEA1HKN2R2	ELECTROLYTIC 50V 2.2	1	
C6015		ECEA50Z2R2	ELECTROLYTIC 50V 2.2	1	
C6016		ECEA50Z3R3	ELECTROLYTIC 50V 3.3	1	
			CRYSTAL OSCILLATORS		
X6001		VSX0082		1	
			CONNECTORS		
P6001		VJS1465	7P	1	
P6002		VJS1444	24P	1	
P6003		VJP1255	4P	1	NV-G10EV
			(LUMINANCE & CHROMINANCE SECTION)		
			TRANSISTORS		
Q3001		2SB641		1	(Q,R,S) OR 2SA937M
Q8001		2SD636		1	(Q,R,S) OR 2SC2021M
			COMBINATION PARTS (TRANSISTOR & RESISTOR)		
QR8001		DTC124EA		1	OR UN1212
			DIODE		
D3004		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R3004		ERDS2TJ750	75	1	
R3005		ERDS2TJ750	75	1	
R3006		ERDS2TJ561	560	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3023		ERDS2TJ392	3.9K	1	
R3024		ERDS2TJ334	330K	1	
R3031		ERDS2TJ750	75	1	
R8001		ERDS2TJ102	1K	1	
R8002		ERDS2TJ221	220	1	
R8003		ERDS2TJ822	8.2K	1	
R8004		ERDS2TJ821	820	1	
			VARIABLE RESISTORS		
VR3001		EVN61AA00B23	2K	1	
VR3051		EVN61AA00B22	200	1	
			CAPACITORS		
C3002		ECEA0JU471	ELECTROLYTIC 6.3V 470	1	
C3003		ECEA1CU470	ELECTROLYTIC 16V 47	1	
C3005		VCYD1C104MR1	SEMICONDUCTOR 16V 0.1	1	
C3017		ECCF1H100DC	CERAMIC 50V 10P	1	
C3019		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C8001		ECEA0JK470	ELECTROLYTIC 6.3V 47	1	
C8002		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C8003		ECKF1H103ZF	CERAMIC 50V 0.01	1	
			COILS		
L3003		VLQEL05F101K	100uH	1	
L3007		VLQEL05F1R0K	1uH	1	
			CONNECTOR		
P3001		VJS1235T	8P	1	
P3002		VJP1263	12P	1	
			(TUNER SECTION)		
			INTEGRATED CIRCUIT		
IC7551		AN5033		1	
			TRANSISTORS		
Q7551		2SB644		1	(R,S,T)
Q7552		2SB644		1	(R,S,T)
			COMBINATION PARTS (TRANSISTORS & RESISTOR)		
QR7551		DTC114EA		1	OR UN1211
			DIODES		
D7551		MA165		1	OR 1SS133,1SS119
D7554		LN28WPVT	LED	1	
D7555		MA27WB		1	
D7556		MA165		1	OR 1SS133,1SS119
D7557		MA165		1	OR 1SS133,1SS119
			RESISTORS		
R7551		ERDS2TJ104	100K	1	
R7552		ERDS2TJ332	3.3K	1	
R7553		ERDS2TJ332	3.3K	1	
R7554		ERDS2TJ102	1K	1	
R7555		ERDS2TJ102	1K	1	
R7556		ERDS2TJ473	47K	1	
R7557		ERDS2TJ124	120K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R7558		ERDS2TJ104	100K	1	
R7559		ERDS2TJ473	47K	1	
R7560		ERDS2TJ473	47K	1	
R7561		ERDS2TJ223	22K	1	
R7562		ERDS2TJ332	3.3K	1	
R7563		ERDS2TJ332	3.3K	1	
R7564		ERDS2TJ332	3.3K	1	
R7565		ERDS2TJ222	2.2K	1	
R7566		ERDS2TJ334	330K	1	
R7567		ERDS2TJ104	100K	1	
R7568		ERDS2TJ103	10K	1	
R7571		ERDS2TJ102	1K	1	
R7572		ERDS2TJ473	47K	1	
R7573		ERDS2TJ820	82	1	
R7574		ERDS2TJ333	33K	1	
R7575		ERDS2TJ273	27K	1	
R7576		ERDS2TJ390	39	1	
			VARIABLE RESISTOR		
VR7502		EVN61AA00B14	10K	1	
			CAPACITORS		
C7518		VCE0017		1	
C7551		ECQV1H104JZ	MYLAR 50V 0.1	1	
C7552		ECEA1CK100	ELECTROLYTIC 16V 10	1	
C7553		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C7554		ECEA1HK220	ELECTROLYTIC 50V 22	1	
C7555		ECQB1H273JH	MYLAR 50V 0.027	1	
C7556		ECQV1H823JZ	MYLAR 50V 0.082	1	
C7557		ECQV1H683JZ	MYLAR 50V 0.068	1	
C7558		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C7559		ECQV1H104JZ	MYLAR 50V 0.1	1	
C7560		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C7561		ECKF1H103ZF	CERAMIC 50V 0.01	1	
C7562		ECEA2AU100	ELECTROLYTIC 100V 10	1	
C7563		ECEA1HKN010	ELECTROLYTIC 50V 1	1	
C7564		ECKF1H102KB	CERAMIC 50V 1000P	1	
C7565		ECKF1H102KB	CERAMIC 50V 1000P	1	
C7566		ECEA1HK010	ELECTROLYTIC 50V 1	1	
C7567		ECKF1H103ZF	CERAMIC 50V 0.01	1	
			COILS		
L7551		VLQEL05F102K	1mH	1	
			(TV DEMODULATOR SECTION)		
			RESISTORS		
R701		ERDS2TJ123	12K	1	
R702		ERDS2TJ392	3.9K	1	
R703		ERDS2TJ562	5.6K	1	
R704		ERDS2TJ562	5.6K	1	
R707		ERDS2TJ103	10K	1	
R708		ERDS2TJ221	220	1	
			CAPACITORS		
C701		ECEA1CK220	ELECTROLYTIC 16V 22	1	
C702		ECEA1EK4R7	ELECTROLYTIC 25V 4.7	1	
C705		ECEA1CKS220	ELECTROLYTIC 16V 22	1	
C706		ECQV1H823JZ	MYLAR 50V 0.082	1	
C707		ECEA1HKS010	ELECTROLYTIC 50V 1	1	
C708		ECEA1CKS220	ELECTROLYTIC 16V 22	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C709		ECKF1H103ZF	CERAMIC 50V 0.01	1	
			COILS		
L701		VLQEL05F680K	68uH	1	OR ELESK680KA
L762		VLQEL05F221K	220uH	1	
L791		VLQEL05F221K	220uH	1	
			MISCELLANEOUS		
		VSC1695	HEAT SINK	1	FOR IC1001
		VMZ0807	HEAT SINK BARRIER	1	FOR IC1001
		VSC1446	HEAT SINK	1	FOR Q1001
		VMC0075	HEAT SINK SPRING	1	FOR IC2001
		VMC0105	SUPPORT ANGLE	1	FOR IC2001
		VSC1689	HEAT SINK	1	FOR IC2001
		VJF0365	SERVO C.B.A. SUPPORT ANGLE	1	
		VJF0331	CLAMPER	1	
		VJF0045	CLAMPER	1	
		VMP0848	EARTH ANGLE	1	
		VJF0330	BINDER	2	
		VJF0215	BINDER	1	
	■	VEP01243B	POWER TRANSFORMER C.B.A.		<!>
			TRANSISTORS		
Q1101		2SA684		1	
Q1102		2SD1275		1	
			DIODES		
D1101		MA4130M		1	
D1102		10E1		1	
D1103		11E2		1	
D1104		11E2		1	
D1105		MA4300L		1	
			RESISTORS		
R1101		ERDS2TJ562	5.6K	1	
R1102		ERDS2TJ152	1.5K	1	
R1103		ERD2FCJ8R2	FUSE 8.2	1	<!>
R1104		ERDS2TJ100	10	1	
			CAPACITORS		
C1101		ECEA1CK100	ELECTOROLYTIC 16V 10	1	
C1102		ECEA1VU332	ELECTOROLYTIC 16V 3300	1	
C1103		ECEA2AU470	ELECTOROLYTIC 16V 47	1	
C1104		ECEA2AU470	ELECTOROLYTIC 16V 47	1	
C1105		ECKF1H223ZF	CERAMIC 50V 0.022	1	
C1106		ECKF1H223ZF	CERAMIC 50V 0.022	1	
C1107		ECKF1H223ZF	CERAMIC 50V 0.022	1	
			CONNECTOR		
P1101		VJP1250T	10P	1	
			MISCELLANEOUS		
		SJT777	AC CORD CLAMPER	2	<!>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		TJC6320	FUSE HOLDER	6	<!>
		VMP0818	EARTH SPRING	1	
		VMP0856	EARTH ANGLE	1	
		VSC1446	HEAT SINK	1	FOR Q1101